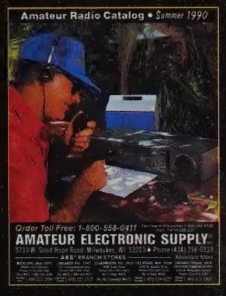
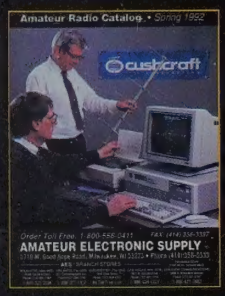
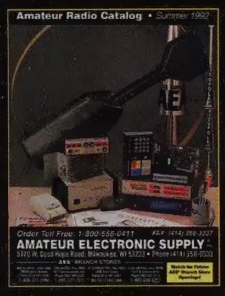
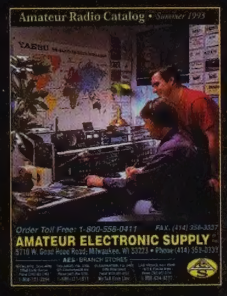
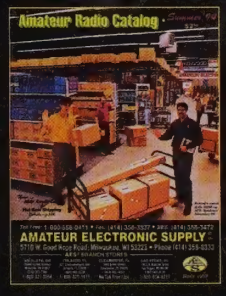
Since 1957 – Going on our 53rd Year!

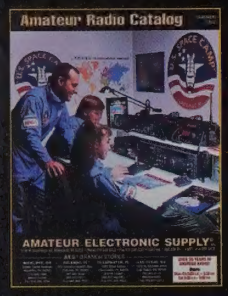


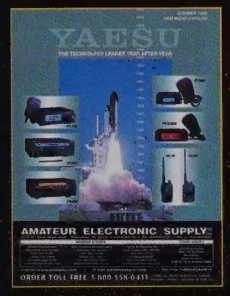












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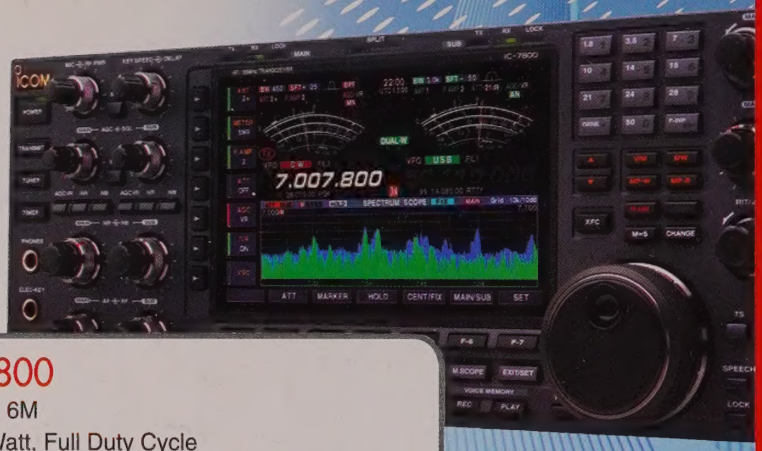

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- 3 Roofing Filters
- Selectable, "Build Your Own" IF Filter Shapes

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For the first time in over 45 years a USA station has won the 2008 CQWW Phone contest Multi Multi for the WORLD.

Team K3LR (100% Icom radio equipment – using eight 7800s, one 7700 and three 781s) finished #1 WORLD and #1 USA Multi Multi in the largest contest on the planet.

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ERW-7 USB PC cable	49.99
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EME-18 Earphone	14.99
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EDC-37 13.8v power cable	9.99
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EJ-47U Digital board; Mk II/III	199.99
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EDC-43 Cig lighter cable; ignition on/off	14.99
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EBC-9 Extra mobile bracket; DX-70TH Δ	19.99
EDS-5 5' mic ext cable; DX-70TH/77T Δ	24.99
EDX-2 160-10m 200w wire auto tuner Δ	269.99
PC-25 Extra DC cable; DX-70TH/77T Δ	24.99

ALPHA DELTA (ALP)

ATT-3G50 200w 3GHz type N surge protector	$ 59.99
ATT-3G50-HP 2kw 3GHz type N surge protector	59.99
ATT-3G50U 200w 500MHz UHF surge protector	49.99
ATT-3G50U-HP 2kw 500MHz UHF surge protector	49.99
ATT/3G50 Extra 200w arc-plug cartridge	14.99
ATT-HP/3G50HP Extra 2kw arc-plug cart	14.99
Delta-2B 500 MHz 2-pos coax switch/protector	59.99
Delta-2B/N 1.3 GHz 2-pos N switch/protector	75.99
Delta-4B 500 MHz 4-pos coax switch/protector	89.99
Delta-4B/N 1.3 GHz 4-pos N switch/protector	99.99
ASC-4B 500 Mhz 4-pos ant selector console	149.99
ASC-4B/N 1.3 GHz 4-pos N ant selector console	159.99

Alpha Delta - continued

	AES Price
D-4 Extra arc-plug; all switches above	9.99
Delta-C Kit w/ctr ins/2 end ins/static protect	29.99
SEP Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Delta-CIN Antenna end insulator each	1.99
DX-80 80m 134' complete dipole antenna	69.99
DX-40 40m 67' complete dipole antenna	69.99
DX-20 20m 34' complete dipole antenna	69.99
DX-A 160-80-40m twin sloper antenna	99.99
DX-B 160-80-40-30m 60' sloper ant	109.99
DX-CC 80-10m 5-band 82' no trap, no tuner dipole	159.99
DX-DD 80/40m 82' Delta Dipole antenna	129.99
DX-EE 40-10m 4-band 40' no trap, no tuner dipole	139.99
DX-LB 160-80-40m 100' shortened dipole	159.99
DX-LB Plus 160/80/40/20/15/10m 100' short dip	189.99
DX-SWL AM broadcast-13m 60' SWL sloper ant	119.99
DX-Ultra AM broadcast-30MHz 80' SWL dipole	159.99
SEP Extra arc-plug cart; DX-Ultra/Delta-C	15.99

AMECO (AME)

CODE PRACTICE OSCILLATORS & CODE KEYS

K-1 Bakelite type key	$ 10.95
K-4R Brass type key	19.95
OCM-2K Code oscillator & CW monitor kit	19.99
OCM-2W Wired oscillator & CW monitor	29.99

PREAMPLIFIERS

TPA HF receive preamp & indoor active ant Δ	$ 59.99
P-9T Power supply for TPA Δ	6.99
PT-3 2-54 MHz transceiver preamp Δ	99.99
P-12T Power supply for PT-3 Δ	6.99

FILTERS

HP-75T 75 ohm high-pass filter	$ 14.99
HP-300T 300 ohm high-pass filter Δ	2.99

AMERITRON (AMR)

AL-80B 1kw PEP out linear amp (3-500Z)	1399.99
AL-82 1.5kw PEP out linear amp (2 3-500Zs)	2549.99
AL-572 1.3kw PEP out linear amp (4 572Bs)	1699.99
AL-800 1250w PEP out linear (3CX800A7)	2399.99
AL-800H 1.5kw PEP out amp (2 3CX800A7)	3599.99
AL-811 600w PEP out linear amp (3 811As)	719.99
AL-811H 800w PEP out linear amp (4 811As)	869.99
AL-1200 1.5kw PEP out linear (3CX-1200A7)	3199.99
AL-1500 1.5kw out linear amplifier (8877)	3499.99
ALS-500M 500w PEP out solid state mob amp	749.99
ALS-500RC Remote head; sn 13049 & up	49.99
SPS-75 75A switching power supply w/fan	359.99
ALS-600 600w PEP out solid state amp w/ps	1299.99
ALS-600S 600w PEP out solid state amp/switching ps	1399.99
ARB-704 Amplifier Xcvr interface buffer	59.99
PNP-5M Plug & play cable; FT-847	17.99
PNP-7D Plug & play cable; TS-570S/870S/2000	17.99
PNP-7DI Plug & play cable; 8-pin DIN/Icom acc	17.99
PNP-8D Plug & play cable; FT-920/1000 series	17.99
PNP-8M Plug & play cbl; FT-450/817/857/897/950	17.99
PNP-8MK Plug & play cable; TS-480	17.99
PNP-13D Plug & play cable; IC-706/7000	17.99
PNP-35 Plug & play cable; FT-100 series	17.99
ARB-704I2 Amp Xcvr interface/cbl; IC-706/7000	59.99
ATP-100 Amplifier tuning pulser	69.99
ATP-102 Deluxe amplifier tuning pulser	79.99
ATR-20 1.2kw PEP antenna tuner	429.99
ATR-30 3kw PEP antenna tuner	559.99
ADL-1500 1.5kw dummy load with oil	74.99
ADL-2500 2.5kw dummy load with fan	209.99
ICP-120 120v inrush protector	79.99
ICP-240 240v inrush protector	79.99
AWM-30 3kw PEP SWR/wattmeter/rem sens	149.99
AWM-35 3kw PEP mobile SWR/wattmeter	159.99
QSK-5 Stand alone T/R switch	339.99
QSK-5PC PC board kit; T/R switch	259.99
CF-5 Cooling fan for QSK-5	39.99
RCS-4 4-pos wireless remote coax switch	149.99
RCS-8V 160-2m 5-pos remote coax switch	159.99

Ameritron - continued

AES Price

RCS-8VN 160-2m 5-pos N rem coax switch .. 169.99
Note: RCS-8V/VN require 8-wire control cable.
RCS-10 DC-100MHz 8-pos remote coax switch 179.99
Note: RCS-10 requires 4-wire control cable.

Amphenol (See Connectors)

ANTENEX/LAIRD (ANX)

AB-FT 118-896MHz ¼ wave NMO whip ..... $ 16.99
AB-SCANC VHF/UHF/800MHz NMO mob scan ant 29.99
BB-1442N 144-174 2.4db no gnd plane NMO mob 39.99
BB-1443 144-174MHz 3db 49" NMO mobile . 39.99
BB-4303 430-450 3db 11 13/16" NMO mobile ... 34.99
CB-144/440C 2m/440 2/5db 36" NMO mobile 49.99
CWB-1443 Self-tuning 144-156 3db NMO mob 49.99
CWB-4405C Self-tuning 440-470 5db NMO mob 49.99
FG-1440/FM-2 2m 92" fg unity gain N base w/mt Δ 69.99
FG-4403/FM-2 440-450 44" fg 3db N base w/mt Δ 79.99
GB-8PSTI NMO mag mt w/coax & teflon PL259 34.99
LBMB-9034 Mirror mt ¾" hole L-bracket 10.99
MB-8PST NMO hole mt w/coax & teflon PL259 16.99
TM8-PST Chrome NMO mini trunk mt/coax/PL259 26.99
TRABT-1420 142-164 Phantom whipless NMO 59.99
TRAB-4303 430-450 3db Phantom whipless NMO 29.99
VTPM NMO mt;up to 1" thick plate (UHF barrel) 19.99
Y-1363 136-150MHz 3el 7.1db gold Ñ beam 99.99
Y-1365 136-150MHz 5el 9.2db gold N beam 129.99
Y-4303 430-450 3el 7.1db gold welded N beam 99.99
Y-4305 430-450 5el 9.2db gold welded N beam 129.99

Antenna Specialists (ASP)

APR143 2m 23" on glass cell look-alike ant Δ $ 49.99

ARROW Antenna (ARA)

146/437-10 3 el 2m/7 el 440 handheld beam $ 73.00
146/437-10BP 3el 2m/7el 440 HH split bm beam 79.00
10w duplexer (installs in boom) w/BNC..... 59.00
10w **duplexer** (installs in boom) w/**SMA** 64.00
OSJ-146/440 2m/440 57.5" J-pole antenna .. 39.00

ARTSCI (ART)

Repeater Mapbook 15th edition ..... $ 14.99

ASTRON (ASR)

RS-7A 5A power supply, 7A surge ..... $ 69.99
RS-10A 7.5A power supply, 10A surge 79.99
RS-12A 9A power supply, 12A surge 89.99
RS-20A 16A power supply, 20A surge 99.99
RS-35A 25A power supply, 35A surge 159.99
RS-50A 37A power supply, 50A surge 229.99
RS-70A 57A power supply, 70A surge 299.99
RS-20M 16A ps w/meters, 20A surge 129.99
RS-35M 25A ps w/meters, 35A surge 179.99
RS-50M 37A ps w/meters, 50A surge 259.99
RS-70M 57A ps w/meters, 70A surge 329.99
VS-20ML Variable 16A ps/meters, 20A surge . 149.99
VS-35M Variable 25A ps/meters, 35A surge . 209.99
VS-50M Variable 37A ps/meters, 50A surge . 279.99
RM-35M 25A rack mt ps/meters, 35A surge . 269.99
RM-50M 37A rack mt ps/meters, 50A surge . 319.99
RM-60M 50A rack mt ps/meters, 55A surge . 429.99
SS-25 20A switching ps, 25A surge 129.99
SS-25M 20A switching ps/meters, 25A surge 149.99
SS-30 25A switching ps, 30A surge 139.99
SS-30M 25A switching ps/meters, 30A surge 159.99
N2412-12 10A 22-32vdc to 13.8vdc converter 59.99
N2412-24 20A 22-32vdc to 13.8vdc converter 89.99

AvMap (AVM)

G-5 Geosat 5 GPS/THD7A/TMD700/710A cable $599.99

BMI (BMI)

972AD 14" 12/24-hour wall clock ..... $ 32.99
973A 12" 24-hour wall clock 49.99

AES Price

B & W (B&W)

BWD-20 14-30 MHz 20' folded dipole .....D $239.99
BWD-45 7-30 MHz 45' folded dipole .....D 229.99

BELDEN (BEL)

52 OHM COAXIAL CABLE

8216 RG-174 (sub-miniature) .....Δ,per ft. $ .39
8240 RG-58U (solid center) .....Δ,per ft. .39
8259 RG-58AU (stranded center) ....Δ,per ft. .49
8219 RG-58AU (stranded, foam) .....Δ,per ft. .49
8219 WHT RG-58AU (white, foam) ...Δ,per ft. .49
8262 RG-58CU (non-contaminating) Δ,per ft. .49
9258 WHT RG-8X (white, stranded, foam) Δ,per ft. .59
8237 RG-8U .....Δ,per ft. .99
8214 RG-8U (foam) .....Δ,per ft. .99
9913 .....Δ,**500** ft. Roll 369.99
9913F7 RG-8U (low loss, flexible) ...Δ,per ft. 1.34
9913F7 .....Δ,**100** ft. Roll 129.99
8267 RG-213 (non-contaminating) .Δ,per ft. 1.39

75 OHM COAXIAL CABLE

8241 RG-59U (73 ohm, solid center) Δ,per ft. $ .49
9248 RG-6U (75 ohm, solid center) .Δ,per ft. .29
8213 RG-11 (75 ohm, solid, foam) ..Δ,per ft. 1.29
8238 RG-11 (75 ohm, stranded center) Δ,per ft. 1.29

ROTOR CABLE

8484 4-wire; 4-20 gauge .....Δ,per ft. $ .49
8448 8-wire; 2-18, 6-22 gauge .....Δ,per ft. .59
9405 8-wire; 2-16, 6-18 gauge .....Δ,per ft. 1.29

COPPERWELD ANTENNA WIRE

8000 No. 14 stranded antenna wire Δ,per ft. $ .54
8000 .....Δ,**100** ft. Roll 48.99

No. 8 ALUMINUM GROUND WIRE

8018 Multiples of **50** ft. .....D,each $ 29.99

FOAM COAX w/PL-259s ON BOTH ENDS

9354 50' RG-8U foam .....Δ $ 99.99
9355 75' RG-8U foam .....Δ 129.99
9356 100' RG-8U foam .....Δ 149.99

BENCHER (BEN)

BY-1 Iambic keyer paddle w/black base $119.99
BY-2 Iambic keyer paddle w/chrome base 149.99
BY-3 Iambic keyer paddle, gold plated .....Δ 319.99
BY-4 Iambic paddle/blk base/gold components 179.99
170-82 Mercury paddle .....drop ship 469.99
ST-1 Single lever keyer paddle, black base ... 119.99
ST-2 Sgl lever kyr paddle, chrome base 144.99
RJ-1 Dlx hand key w/navy knob/black base .. 119.99
RJ-2 Dlx hand key w/navy knob/chrome base 149.99
EZ-1 Universal hook-up kit; paddle/key (not 170-82) 10.99
YA-1 1kw low pass filter 95.99

BETTER RF (BET)

706 Tune Control for IC-706 series/IC-718 .... $ 32.99
7000 Screwdriver Control* for IC-7000 ..... 84.99
*Requires 7000 Tune Control also
7000 Tune Control for IC-7000 ..... 54.99
I-Mate Msg acc; 746PRO/756PRO II/III/7800 74.99
Yae Tune Control for FT-100/450/857/897/950 44.99

Bounty Hunter (BOU)

Tracker IV Metal detector/3-mode $129.99
Quick Draw II Metal detector/full motion 229.99
Sharp Shooter II Metal detector/LCD readout 269.99
Land Star Metal detector/3-tone audio discrim 299.99
Carry Bag For Bounty Hunter metal detectors 29.99
10" Coil 10" magnum coil; adds depth 49.99

BUCKMASTER (BUC)

HamCall CD-ROM ham listings ..... $ 49.99
OCF 7-band 300w 135' off-center-fed dipole 189.99

BUSHNELL (BUS)

10-1911 Velocity sports speed gun ..... $ 99.99

AES Price

BUTTERNUT (BUT)

Skyhawk 3X10 Triband 10 el, 24' beam w/bauln * 1249.99

***Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.**

HF-6VX 80/40/30/20/15/10m 26' vert ant 389.99
HF-9VX 80/40/30/20/17/15/12/10/6m 26' vert 449.99
A17-12 17 & 12m kit for HF-6VX 66.99
CPK Counterpoise kit 179.99
MPS Mounting post sleeve 15.99
RMK-II Roof mounting kit w/radials 199.99
STR-II Radial kit only 159.99
TBR-160S 160m resonator 169.99
HF-2V 80/40m 32' vertical 299.99
TBR-160S 160m resonator 169.99

CQ (CQX)

Building and Using **Baluns** and Ununs ..... $ 19.99
HR Anthology - **Homebrew**ing Techniques 19.99
W6SAI HF Antenna Handbook 19.99

CSS (CSS)

Emcomm Ops AEA/TIM Software PK-12/96/232 $ 29.99
Emcomm Ops Kan Software; Kantronics TNC . 29.99
ROC Digital Desktop; **AEA**/Tim Soft PK-12/96/232 99.99
ROC Digital Desktop; **Kan** Software; Kan TNC . 99.99

CABLE X-PERTS (CAB)

CXP1318FX CXP1318FX (low loss, flexible) per ft. $ 1.04
CXP1318FX .....**500** ft. Roll 476.99
CXP1318FC-3 3' CXP1318FX/silver teflon PL259s 22.99
CXP1318FC-6 6' CXP1318FX/silver teflon PL259s 24.99
CXP1318FC-25 25' CXP1318FX/silver teflon PL259s 45.99
CXP1318FC-50 50' CXP1318FX/silver teflon PL259s 77.99
CXP1318FC-75 75' CXP1318FX/silver teflon PL259s 102.99
CXP1318FC-100 100' CXP1318FX/silver teflon PL259s 133.99
CXP1318FC-150 150' CXP1318FX/silver teflon PL259s 186.99
CXP1318FN-3 3' CXP1318FX/type N males 29.99
CXP1318FN-6 6' CXP1318FX/type N males 32.99
CXP1318FN-10 10' CXP1318FX/type N males 35.99
CXP1318FN-25 25' CXP1318FX/type N males 54.99
CXP1318FN-50 50' CXP1318FX/type N males 83.99
CXP1318FN-75 75' CXP1318FX/type N males 116.99
CXP1318FN-100 100' CXP1318FX/type N males 139.99
CXP1318FN-125 125' CXP1318FX/type N males 170.99
CXP008C-3 3' RG8 foam/silver teflon PL259s 22.99
CXP008C-6 6' RG8 foam/silver teflon PL259s 25.99
CXP008C-25 25' RG8 foam/silver teflon PL259s 37.99
CXP008C-50 50' RG8 foam/silver teflon PL259s 55.99
CXP008C-75 75' RG8 foam/silver teflon PL259s 73.99
CXP008C-100 100' RG8 foam/silver teflon PL259s 98.99
CXP008C-125 125' RG8 foam/silver teflon PL259s 115.99
CXP213C-6 6' RG213/silver teflon PL259s ... 26.99
CXP213C-15 15' RG213/silver teflon PL259s 36.99
CXP213C-25 25' RG213/silver teflon PL259s 47.99
CXP213C-50 50' RG213/silver teflon PL259s 73.99
CXP213C-75 75' RG213/silver teflon PL259s 96.99
CXP213C-100 100' RG213/silver teflon PL259s 118.99
CXP08XC-18IN 18" RG8X/silver teflon PL259s 14.99
CXP08XC-3 3' RG8X/silver teflon PL259s 16.99
CXP08XC-6 6' RG8X/silver teflon PL259s 18.99
CXP08XC-12 12' RG8X/silver teflon PL259s . 22.99
CXP08XC-25 25' RG8X/silver teflon PL259s . 26.99
CXP08XC-50 50' RG8X/silver teflon PL259s . 36.99
CXP08XC-75 75' RG8X/silver teflon PL259s . 47.99
CXP08XC-100 100' RG8X/silver teflon PL259s 57.99
6633S Type N male; 8214/9913/9913F 6.99

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Cbl Xperts - continued

AES Price

CXP058ARBP-3	3' RG58/ft angle BNC male - PL-259	19.99
CXP058ARBS-3	3' RG58/BNC male - SO-239	30.99
CXP142SBJ-3	3' RG142/SMA m - BNC f .... Δ	24.99
CXP08XCB-3	3' RG8X/male BNCs	27.99
CXP08XCB-6	6' RG8X/male BNCs	29.99
UG-3634	4" SO-239 double female	9.99
UG-3636	6" SO-239 double female	12.99
235	1" tinned copper ground braid .....per ft	1.44
235	.....100 ft. Roll	124.99
2332	½" tinned copper ground braid ...per ft.	.89
2332	.....100 ft. Roll	70.99
AZ-12	12ga red/black DC power cord ...per ft	1.10
AZ-12	.....100 ft. Roll	95.99

CAT Comm (CAT)

NVSCAN-1	Southern NV Radio Scanning Directory	$ 16.99

CELESTRON (CEL)

93353	1.25" 18mm Utima lens .....Δ	$ 19.99
93700	CD-ROM "The Sky for Celestron" .....Δ	4.99

Channel Master (CHA)

9521A	Prog light duty rotor/IR rem cont/3-wire	$119.99

CLOCKS

BMI 972AD	14" 12/24-hour wall clock	$ 27.99
BMI 973A	12" 24-hour wall clock	49.99
LAC WT-3102S	10" 12-hr analog atomic clock	19.99
MFJ 105C	24-hour quartz wall clock	24.99
MFJ 107B	24-hour digital clock	12.99
MFJ 108B	24/12-hour dual disp digital clock	21.99
MFJ 112B	Deluxe world map clock	29.99
MFJ 113	24/12-hr 1.8" LED clock/batt back-up	19.99
MFJ 118	Giant 24/12 hour LCD clock	29.99
MFJ 123	Eternity solar atomic clock .....D	29.99
MFJ 123B	Eternity solar atomic clock	79.99
MFJ 125	Calendar 24-hour analog wall clock	34.99

COAX SEAL (UNV)

104	½" x 60" coax seal	$ 3.99

Coaxial Dynamics (COA)

81000-A	Wattmeter w/SO-239s	$289.99
83000-A	Peak reading wattmeter w/SO-239s	413.99
82004	50w 2-30MHz element	105.99
82005	100w 2-30MHz element	105.99
82006	250w 2-30MHz element	105.99
82007	500w 2-30MHz element	105.99
82008	1000w 2-30MHz element	105.99
82009	2500w 2-30MHz element	139.99
82010	5000w 2-30MHz element	139.99
82013	10w 25-60MHz element	75.99
82014	25w 25-60MHz element	75.99
82015	50w 25-60MHz element	75.99
82016	100w 25-60MHz element	75.99
82029	10w 100-250MHz element	75.99
82031	50w 100-250MHz element	75.99
82033	250w 100-250MHz element	75.99
82046	10w 400-1000MHz element	75.99
82048	50w 400-1000MHz element	75.99
82049	100w 400-1000MHz element	75.99
88000	N female quick match connector each	13.99
88800	Carrying case for meter	72.99

COBRA (COB)

19DX IV	AM Mobile CB	$ 49.99
25LTD	(25LTD Classic) AM Mobile CB	89.99
25WXNW ST	Night Watch Sound Tracker AM Mob CB/WX	109.99
29LTD	(29LTD Classic) AM Mobile CB	99.99
29NW	Night Watch AM Mobile CB	119.99
29WXNW ST	Night Watch Sound Tracker AM Mob CB/WX	129.99
75WX ST	Sound Tracker AM Mobile CB w/WX	99.99
148GTL	SSB/AM Mobile CB	149.99
HH-Road Trip	Sound Tracker HH CB/WX/mag ant	79.99
HGA-1000	Magnet mt CB antenna	29.99
HGM-77	Noise canx/amplified mobile mic	24.99

COMET (CMT)

AES Price

SWR/POWER METER

CMX-1	1.8-60MHz 2kw remote SWR/pwr meter	$169.99
EKS-3	Optional 10' extension cable for CMX-1	28.99

MOBILE ANTENNAS

B-10	2m/440 0/2.15db 12" cell look-alike ant	$ 42.99
B-10NMO	2m/440 0/2.15db 12" cell look-alike NMO	42.99
CA-2X4SR	2m/440 3.8/6.2db 40" mob ant	69.99
CSB-750A	2m/440 3.6/6.1db 42" foldover ant	72.99
CSB-770A	2m/440 4.4/6.9db 51" foldover ant	89.99
CSB-790A	2m/440 5.1/7.7db 62" foldover ant	115.99
HP-32FHN	2m/440 3/5.5db 34" 350/250w ant	89.99
M-24B	2m/440 1.7/4.1db mag mt ant w/BNC	39.99
M-24M	2m/440 1.7/4.1db mag mt ant w/PL259	39.99
M-24S	2m/440 1.7/4.1db mag mt ant w/SMA	39.99
SBB-1	2m/440 1.5/2.15db 16" flex mobile	42.99
SBB-1NMO	2m/440 1.5/2.15db 16" flex NMO	42.99
SBB-2	2m/440 2.15/3.8db 18" black mobile	42.99
SBB-2NMO	2m/440 2.15/3.8db 18" blk NMO	42.99
SBB-5	2m/440 3/5.5db 38" black mobile ant	58.99
SBB-5NMO	2m/440 3/5.5db 38" black NMO	58.99
SBB-7	2m/440 4.5/7.2db 55" black mob ant	79.99
SBB-7NMO	2m/440 4.5/7.2db 55" black NMO	79.99
SB-14	6m/2m/440 43" chrome mobile ant	67.99
SB-15	6m/2m/440 0/4.5/7.2db 61" chr mob D	74.99
SBB-15	6m/2m/440 0/4.5/7.2db 61" blk mob	84.99
SBB-25	2m 4.1db black mobile antenna	48.99
SBB-25NMO	2m 4.1db black NMO mob ant	48.99
SBB-94	2m/440/1.2 2.15/5.1/7.2db 24" N blk	69.99
SB-97	2m/440/1.2 3/6.8/9.6db 39" type N .D	59.99
SBB-97	2m/440/1.2 3/6.8/9.6db 40" N black	84.99
SB-123	1.2GHz 7.2db 24" type N mob ant . D	39.99
SBB-123	1.2GHz 7.2db 24" type N blk mob	54.99
SBB-224	2m/220/440 2.15/3.5/6db blk mob	78.99
SBB-224NMO	2m/220/440 2.15/3.5/6db blk NMO	78.99
SF-245	2.4 GHz 7db 18" fg type N ant .....Δ	24.99
SF-245SPRR	2.4GHz 7db 18" fg N ant/spring	59.99
SS-460SB	2m/440 1.5/4.15db 18" blk ant/spring	43.99
SS-460SBNMO	2m/440 1.5/4.15db 18" blk NMO/spg	43.99
SS-680SB	2m/440 2.1/5db 27" blk ant/spring	46.99
SS-680SBNMO	2m/440 2.1/5db 27" blk NMO/spg	46.99
UHV-4	10/6/2/440 55" mobile ant; FT8900R	109.99
UHV-6	40/15/10/6/2m/440 78" mobile ant	159.99
L-3.5	80m loading coil for UHV-6	34.99
L-14	20m loading coil for UHV-6/CA-HV	29.99
L-18	17m loading coil for UHV-6/CA-HV	29.99

MOBILE MOUNTS

3D4M	Mobile mt, 13' coax w/UHF connectors	$ 26.99
3D4N	Mobile mt, 13' coax w/type N	26.99
3D5M	Mobile mt, 16.5' coax w/UHF connectors	28.99
5D4N	Roof mount, 13' coax w/type N	34.99
AD-10N	NMO mount to female N adapter	21.99
AD-15M	NMO mount to SO-239 adapter	21.99
AD-25M	SO-239 to NMO mount adapter	15.99
AD-35M	⅜-24 stud to UHF mobile mt adapter	17.99
CK-3-3/8-24	Dlx 2-step 16.5' cbl/3/8-24/UHF	42.99
CK-3M	Dlx 2-step 9'9" cable w/UHF connectors	35.99
CK-3M5	Dlx 2-step 16.5' cable w/UHF connects	42.99
CK-3NMO	Dlx 2-step 16.5' cable w/NMO/UHF	42.99
CK-5N	Dlx 13' cable assembly w/type N	44.99
CM-5M	Hvy duty mag mt, coax, max 4' ant	24.99
CP-5-3/8-24	HD ⅜-24 mt (RS-730) w/16.5' coax	69.99
CP-5M	Hvy duty UHF mt (RS-730) w/16.75' coax	69.99
CP-5NMO	Hvy duty NMO mt (RS-730) w/16.5' coax	69.99
CR-5M	Std coax assy, 16.5' coax, UHF conn	19.99
CT-5M	Trunk lip mount w/16.5' coax	39.99
GRB-5M	Deluxe black trunk lip mt w/coax	69.99
HD-5-3/8-24	HD ⅜-24 lip mt (RS-840) w/16.5' coax	79.99
HD-5M	Hvy duty lip mt (RS-840) w/16.5' coax	79.99
MG-4N	Magnet mt w/13' coax, N connector	54.99
RS-520	Mini heavy duty trunk/hatch mount	28.99
RS-560C	Luggage rack mount, no coax	37.99
RS-720	Hatch/rear door/tnk multi-adj mt	29.99

Comet - continued

AES Price

RS-720NMO	Hch/rear door/tnk multi-adj NMO mt	29.99
RS-730	HD rear van/SUV door/tnk lip mt, no coax	32.99
RS-840	HD low profile lip mt w/lateral support	37.99
WS-1M	Window clip mt w/UHF connectors	66.99

BASE STATION ANTENNAS

CA-712EF	440 9db 10' 5" base antenna	$ 99.99
CA-ABC22A	2m 6.5db 9' 5" base/rptr ant	75.99
CA-ABC23	2m 7.8 db 13' 4" base/rptr ant	109.99
CA-F72GF	440-470 6db 3' 6" tunable ant	109.99
CA-52HB4	6m 4 el 10.4db 10' 6" boom beam	129.99
CHA-250B	3.5-57MHz no radials 23.5' vertical	429.99
CX-333	2m/220/440 6.5/7.8/9db 10.25' ant	189.99
CYA-1216E	1.2GHz 16el 16.6db 4' 5" bm N beam	129.99
DS-150S	6m/2m/440/900/1.2 discone/60' coax	99.99
GH-50	6m 2.15db 7' 10" fg base antenna	109.99
GP-1	2m/440 3/6db 4' 1" base/rptr antenna	=79.99
GP-3	2m/440 4.5/7.2db 5' 11" base/rptr ant	99.99
GP-6	2m/440 6.5/9db 10' 2" base/rptr ant	159.99
GP-9	2m/440 8.5/11.9db 17' 8" base/rptr	219.99
GP-9N	2m/440 8.5/11.9db 17' 8" N base/rptr	219.99
GP-15	6/2m/440 3/6.2/8.6db 7' 11" base	179.99
GP-21/CA-1221S	1.2 14.8db 8' N base/rptr	169.99
GP-24R	2.4GHz 15.4db 5' 10" N base/rptr	149.99
GP-95	2m/440/1.2 6/8.6/12.8db 8' 1-pc N ant	159.99
GP-98	2m/440/1.2 6.5/9/13.5db 9' 8" N ant	169.99
H-422	40/20/15/10m 34' rotatable dipole	329.99
KP-20	900 MHz 9.2db 7' 4" type N base/rptr	119.99
CTC-50M	Window gap adapter	54.99

DUPLEXERS AND TRIPLEXERS

CF-142	1.3-150/200-480 600/400w UHF/leads	$ 64.99
CF-360A	1.3-30/50-470 600w UHF w/leads	64.99
CF-360B	1.3-30/50-470 600w UHF/common lead	69.99
CF-413B	1.3-500/840-1.4 D-Star N/UHF/N/leads	62.99
CF-416A	2m/440 800/500w SO239/PL259/leads	49.99
CF-416B	2m/440 800/500w UHF/N w/leads	49.99
CF-416C	2m/440 800/500w N/UHF/N leads	54.99
CF-416W	1.3-250/400-1400 400/200w N/leads	69.99
CF-530	1.3-90/125-470 600w UHF w/leads	74.99
CF-530C	Backwards duplexer for FT-8900R	69.99
CF-706A	1.3-56/75-470 350w UHF w/leads	74.99
CF-4130B	1.3-460/840-1400 800/500/200w UHF/N	59.99
CF-4160I	2m/440 800/500w UHF/UHF/N, no leads	48.99
CF-4160J	2m/440 800/500w SO239, no leads	53.99
CF-4160K	2m/440 800/500w all UHF, no leads	48.99
CFX-324A	2m/220/440 600w UHF w/leads	88.99
CFX-324B	2m/220/440 600w UHF, no leads	85.99
CFX-431B	2m/440/1.2 D-Star N/UHF/N/leads	85.99
CFX-514	HF/2m/440 800/800/500w UHF w/leads	79.99
CFX-514J	HF/2m/440 800/800/500w UHF, no leads	74.99
CFX-514N	HF/2m/440 800/800/500w UHF/N w/leads	79.99
CFX-4310C	1.3-150/440/1.2 triplexer, no leads	79.99
CFX-5140	HF/6m/2m/440 800/800/500w UHF, no leads	74.99

HT & HANDHELD SCANNER ANTENNAS

BNC-24	2m/440 17" 2.15/5.3db BNC whip	$ 24.99
CH-32	2m/440 1.75" BNC Miracle Baby ant	29.99
CH-75	2m/440 0/3.2db 14.75" BNC ant	25.99
HB-05	18" BNC female - SMA male adapter/cbl	14.99
HM-05	18" BNC male - SO-239 adapter/cable	14.99
HS-05	18" SMA male - SO-239 adapter/cable	14.99
HS-10	39" SMA male - SO-239 adapter/cable	17.99
HT-224	2m/220/440 11.5" SMA antenna	47.99
SH-55	2m/440 1.5/3.2db 15" BNC ant	33.99
SH-95	2m/440/1.2 1.5/2.15/5.5db BNC ant	34.99
SMA-3	2m/440 1.2/1.7db 9.75" SMA ant	39.99
SMA-24	2m/440 17" 2.15/5.3db SMA whip	24.99
SMA-501	2m/440/900 1.5" SMA antenna	29.99
SMA-503	2m/440 8.75" SMA antenna	29.99
SMA-703	2m/440/1.2GHz 6.5" SMA ant	31.99

Comm Outfitters (COF)

EXP-1	Expedition Pack for Yaesu FT-817	$ 99.99

COMM-SPEC (COM)

ID-8	Automatic morse station identifier	$ 69.99

Comm-Spec - continued AES Price

SS-64 64-tone mini prog CTCSS encoder	28.99
TE-32 32-tone CTCSS prog encoder box	59.99
TS-64DS 64-tone CTCSS prog encoder/decoder	57.99

CONNECTORS

AMPHENOL COAX CONNECTORS (AMP)

83-1SP Silver plated coax plug (PL-259)	$ 2.99
(CZL) **401TS** silver plated teflon PL-259 Δ	1.99
83-168-RFX Reducer; RG-59/RG-8X (UG-176)	.99
83-185-RFX Reducer for RG-58 (UG-175)	.99
(SHA) **PL-259-CP-G** Solderless PL259;RG8X/58	6.99
(SHA) **PL-258-CP-G** Solderless splice;RG8X/58	9.99
83-1AP Right angle adaptor (UG-646)	12.99
83-1J Double female adaptor (PL-258)	9.99
83-1R Female chassis mt socket (SO-239)	4.99
83-1T T-connector adaptor (M-358)	14.99
83-877 Double male adaptor	24.99
83-878 Single hole ⅝" chassis socket	6.99
31-002 BNC male connector for RG-58	5.99
31-012 BNC male connector; RG-59/RG-8X	9.99
31-221 BNC female chassis socket	2.99
82-24 Type N female chassis mt socket	9.99
82-64 Type N right angle adaptor	22.99
(CAB) **6633S** Type N male; 8214/9913/9913F	6.99
82-202-1006 Type N male; 8214/9913/9913F	8.99
34025 Type N male connector for RG-58	11.99
(CAB) **UG-3634** 4" SO-239 double female	9.99
(CAB) **UG-3636** 6" SO-239 double female	12.99

AMPHENOL COAX ADAPTORS (AMP)

2900 SO-239 to BNC male adaptor	$ 16.99
4400 SO-239 to type N male adaptor	18.99
31-28 BNC female to PL-259 adaptor	19.99
(HOU) **SMA-872** SO-239 to SMA plug adaptor	5.99

AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

25-7365 BNC female to SO-239	$ 3.99
25-7420 BNC male to SO-239	3.99
26-8010 Type N double female	4.99
26-8011 Type N chassis mount	3.99
26-8014 N female to PL-259	4.99
26-8015 N male to SO-239	5.99
26-8016 BNC female to N male	6.99
26-8017 BNC male to N female	4.99
27-8120 BNC female to PL-259	3.99
27-8130 BNC double male	3.99
27-8140 BNC T; 2 female, 1 male	2.99
27-8150 BNC right angle adapter	3.99
27-8470 Dual BNC chassis mount D	1.99
29-3855 BNC female to SMA male	4.99
29-4140 SO-239 to mini PL-259	3.99
CPAD-207 Chassis mt 2" SO-239 double female	5.99
CPAD-556M Dual BNC chassis mount	4.99

VANCO MICROPHONE CONNECTORS (VCO)

CBC-4 4-pin female mic plug	$ 4.99
CBC-5 5-pin female mic plug	3.99
CBC-6 6-pin female mic plug	4.99
(PHI) **61-608B** 8-pin female mic plug	4.99
CBC-8P Panel mt 8-pin male	5.99

KENWOOD DIN PLUGS (KEN)

7-pin **DIN** plug	$ 4.99
8-pin **DIN** plug	6.99
13-pin **DIN** plug	9.99

VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

MH-1 Magnetic mic holder	$ 2.99
MH-2 Regular mic holder	1.49
P-12R 2-contact cigarette plug	2.99
P-12V Cig lighter plug w/leads	2.99
P-12X Solderless cig lighter plug	1.99
P-35 3.5mm miniature phone plug Δ	.49
P-212 2-outlet cigarette plug adapter	4.99
P-212B Dual cigarette lighter socket adapter	8.99
(DAL) **15-0293** 3.5mm mono phone plug Δ	.19
(HOU) **AP-115** ¼" metal stereo plug	1.99
(HOU) **AP-135** 3.5mm stereo mini phone plug	.69

Connectors - continued AES Price

(HOU) **VCC-6B** 20 pack of cable clips; RG6/8X Δ	.29

C. CRANE (CRA)

CC2B Black AM/FM/WX/2m portable receiver	$149.99
CSW AM/FM/SW portable receiver	139.99
SWP AM/FM/SW pocket receiver	44.99

CROSS DEVICES (CRS)

STUF Coax connector waterproofing filler	$ 5.99

CUSHCRAFT (CUS)

VHF/UHF FM BEAMS* (Vertical polarization)

A148-3S 2m, 3 el wideband beam, 7.8db	$ 69.99
A148-10S 2m, 10 el wideband beam, 13.2db	139.99
A449-6S 440 MHz, 6 el, 3' boom, 10 db	79.99
A449-11S 440 MHz, 11 el, 4.5' boom, 13 db	119.99

*Antennas can be mounted vertically or horizontally!

2M/440 FM BEAMS* (Vertical polarization)

A270-6S 2m/440, 3/3 el, 2.8' boom, 7.8 db	$129.99
A270-10S 2m/440, 5/5 el, 6.17' boom, 10 db	169.99

*Antennas can be mounted vertically or horizontally!

TRI-BAND 6M/2M/440 BEAM

A6270-13S 6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db	$279.99

FM RINGOS - 1/2 Wave Verticals

AR-10 10m FM Ringo, 17.6', 3db, 1000w	$109.99
AR-6 6m FM Ringo, 10.1', 3db, 1000w	99.99
AR-2 2m FM Ringo, 3.9', 3db, 1000w	64.99
AR-450 440MHz FM Ringo, 1.4', 3db, 500w	47.99

RINGO RANGERS - FM Verticals

ARX-2 2m FM Ringo Ranger, 9.3', 5db, 1000w	$ 79.99
ARX-2B 2m FM Ringo Ranger II, 14', 7db, 1000w	109.99
ARX-220B 220 FM Ringo Ranger II, 9.3', 7db, 500w	114.99
ARX-450B 440FM Ringo Ranger II, 4.9', 7db, 500w	99.99

DUAL-BAND 2M/440 FM RINGOS

AR-270 2m/440MHz FM, 3.75', 3/5.5db, 250w	$129.99
AR-270B 2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	189.99

TWIST, OSCAR BEAM (Horiz/Vert Polarization)

A148-20T 2m 20el 10.8'boom 13db twist	$219.99

BOOMER ANTENNAS

124WB 2m Boomer, 4 el, 4' boom, 10.2 db	$109.99
13B2 2m Boomer, 13 el, 15' boom, 15.8 db	249.99
17B2 2m Boomer, 17 el, 31' boom, 18 db	369.99
26B2 2 13B2s vertically stacked	599.99
224WB 220 Boomer, 4 el, 3' boom, 10.2db	99.99
719B 432 19 el 13.5' boom 15.5db	249.99

BOOMER POWER DIVIDERS

PD-2 Power divider for 2 13B2s	$ 69.99
PD-4 Power divider for 4 13B2s	89.99

VHF/UHF BEAMS* (Horizontal polarization)

A50-3S 6m, 3 el, 6' boom, 8 db, stainless hdwre	$139.99
A50-5S 6m, 5 el, 12' boom, 10 db, stainless hdwre	199.99
A50-6S 6m, 6 el, 20' boom, 11db, stainless hdwre	399.99
A148-10S 2m, 10 el wideband beam, 13.2db	139.99
A430-11S 430 MHz, 11 el, 4' boom, 13 db	119.99

*Antennas can be mounted vertically or horizontally!

MONO-BAND MOBILE ANTENNAS

CS-147A 2m coil & whip only D	$ 19.99
CS-450M 440 magnet mt 5 db antenna D	29.99

DUAL-BAND 2M/440 MOBILE ANTENNA

CS-270A 2m/440 coil & whip only D	$ 29.99

MOUNT ONLY FOR MOBILE ANTENNAS

CS-TL Trunk lip mount D	$ 16.99

MULTIBAND HF VERTICAL ANTENNAS

MA-5VA 20/17/15/12/10m 14.7' vertical ant	$299.99
MA-6VA 20/17/15/12/10/6m 14.7' vertical ant	339.99
MA-160V 160m 36' vertical ant w/radials	299.99
MA-8040V 80/40m 27' vertical antenna	319.99
R-6000 20/17/15/12/10/6m 19' vertical	429.99
R-8 40/30/20/17/15/12/10/6m 28.5' vert	539.99
R-8GK Guy kit for R-8	56.99

ROTATABLE HF DIPOLES

D-3 20/15/10m World Ranger rotatable dipole	$369.99

Cushcraft - continued AES Price

D-3W 30/17/12m rotatable dipole	369.99
D-4 40/20/15/10m World Ranger rotatable dipole	419.99
D-40 40m World Ranger rotatable dipole	399.99

BIG THUNDER HF TRI-BAND BEAM

X-7 20/15/10m, 7 el, 18' boom, 12.5/13db	1099.99
X-740 40m add-on kit for X-7	369.99

BIG THUNDER HF MONOBAND BEAM

XM-240 40m, 2 el, 22' boom, 6 db	$999.99
TEN-3 10m, 3 el, 8' boom, 8 db	299.99

MULTIBAND HF BEAM ANTENNAS

A-3S 20/15/10m, 3el, 14'bm, 8db, stainless hdwr	$599.99
A-743 40m or 30m add-on kit; A-3/A-3S	199.99
A-4S 20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre	699.99
A-744 40m or 30m add-on kit; A-4/A-4S	199.99
A-3WS 17 & 12m, 3 el, 14' boom, 8 db	499.99
A-103 30m add-on kit for A-3WS	199.99
ASL-2010 13.5-32MHz 8el 18' bm 6.4db LP	999.99
MA-5B 20/17/15/12/10m 7.3' boom mini beam	499.99

LIGHTNING ARRESTORS

LAC-4 200w SO-239 gas tube arrestor D	$ 64.99
LAC-4H 2kw SO-239 gas tube arrestor D	69.99
LAC-4N 200w type N gas tube arrestor D	49.99
LAC-4NH 2kw type N gas tube arrestor D	69.99
LC-2 Extra 200w cartridge for LAC-4/4N D	19.99
LC-2KW Extra 2kw cartridge for LAC-4H/4NH D	22.99
5VB Vinyl connector boots D,pack of 5	14.99

DCI (DCI)

145-2H 2m 144-146MHz 200w bandpass filter	$169.99
146-4H 2m 144-148MHz 200w bandpass filter	169.99
223.5-3H 222-225MHz 200w bandpass filter Δ	129.99
2m/220 models w/N connectors add $10 special order	
435-10C 430-440MHz 200w N bandpass filt	189.99
445-10C 440-450MHz 200w N bandpass filt	189.99
146/444-DB 144-148/438-450 200w bp filter	239.99

DAIWA (DAI)

CN-101 1.8-150 15/150/1.5kw SWR/pwr meter/light	$ 99.99
CN-103M 140-525 20/200w SWR/power meter	99.99
CN-103N 140-525 20/200w N SWR/pwr meter	109.99
CN-801HP 1.8-200 20/200/2kw SWR/PEP pwr	159.99
CN-801SII 900-2.5GHz 200mw/2/20w N SWR/pwr	269.99
CN-801V 140-525 20/200w SWR/power meter	154.99
CS-201 2-position 600MHz coax switch	32.99
CS-201GII 2-position 2GHz N coax switch	48.99
SS-330W Variable 30A switch ps/fan/meters	169.99
SS-505 Variable 50A switch ps/fan/meter/3-outputs	399.99

DAVIS (DAV)

6152 Vantage Pro2 wireless weather station	$539.99
6250 Vantage Vue wireless weather station	369.99
7400 Perception II indoor weather unit Δ	69.99
7425 Wizard III weather station	199.99
7852 Rain Collector II, 0.01"	69.99
7866 Weatherlink Mac interface/software D	9.99
7873 Cig lighter power cord D	2.99
7876-040 4-conductor 40' extension cbl Δ	4.99
7878-040 6-conductor 40' extension cbl D	2.99
7881 8-conductor 50' junction box cable D	2.99
7882 8-conductor 100' junction box cbl D	8.99
7890 Mast mount for anemometer D	.99
0131 Weather forecasting quick reference card	9.99
0276 WindScribe electronic wind/temp indicator	99.99
0281 Wind Wizard handheld wind indicator	49.99

DIAMOND (DIA)

SWR/POWER METERS

SX-20C HF/6m/2m 30/300w meter	$ 89.99
SX-40C 144-470 (220 w/correction) 30/300w	79.99
SX-100 1.6-60 MHz 30/300/3kw PEP meter	134.99
SX-200 1.8-200 MHz 5/20/200w PEP meter	94.99
SX-240C 1.8-54/140-470 3kw HF/30/300w meter	319.99
SX-400 140-525 MHz 5/20/200w PEP meter	114.99
SX-600 Dual band 1.8-160 /140-525 200w PEP mtr	169.99

Diamond - continued AES Price

SX-1100 1.8-160/430-1300MHz 200w PEP mtr D 214.99

HT & HANDHELD SCANNER ANTENNAS

RH-3 2m/440 1.75" BNC mini HT duck ..... $ 29.99
RH-77CA 2m/440 15" BNC rubber gain ant .. 24.99
RH-205 2m ⅝ wave 47.5" BNC telescopic ant 29.99
RH-519 2m/440 8" BNC flexible whip 24.99
RH-707 2m/440 8¼" BNC tiltable whip 33.99
RH-789 93-1100MHz adjustable freq BNC ant 34.99
RH-951S 2m/440/1.2GHz 14" BNC slim duck 44.99
RHF-40 2m/440 15" BNC flexible rubber gain ant 29.99
SRH-77CA 2m/440 15" SMA rubber gain ant 24.99
SRH-320A 2m/220/440 13.75" SMA flex whip 49.99
SRH-519 2m/440 8" SMA flexible whip 27.99
SRH-789 93-1100MHz adjustable freq SMA ant 34.99
SRH-805 2m/440/1.2GHz 1.75" SMA ant 28.99
SRH-815 2m/440/1.2GHz 6" SMA flex whip .. 33.99
SRH-940 6m/2m/440 18" SMA flexible whip . 39.99
SRH-999 6m/2m/440/1.2GHz 20" SMA flex whip . 59.99
SRHF-40 2m/440 15" SMA flexible rubber gain ant 29.99

MONO-BAND MOBILE ANTENNAS

HF-6FX 6m 2.15db 44" mobile antenna ..... $ 69.99
HF-50CX 6m 3.5db 71" mobile antenna .....D 89.99
M-285 2m 3.4db 52.4" mobile antenna 31.99
M-285SNMO 2m 3.4db 52.4" NMO mobile ant 31.99
M-685 6m 2.15db 52.4" mobile antenna 31.99
M-685SNMO 6m 2.15db 52.4" NMO mobile ant 31.99
MG-200 2.4GHz 7db 23.6" N mobile ant ....Δ 49.99
NR-22L 2m 6.5db 96.8" mobile antenna 69.99
NR-124NMO 1.2GHz 8.4db 25" NMO antenna 64.99
NR-140BNMO Black 220 4db 37" NMO ant .. 53.99

DUAL-BAND MOBILE ANTENNAS

CR-270A 2m/440 2.15/3.4db 17.2" mobile ant $ 42.99
MR-77 2m/440 2.15/3.4db 20" magnetic ant 39.99
MR-77SMA 2m/440 2.15/3.4db 20" mag w/SMA 44.99
NR-72BNMO Black 2m/440 2.15db 14" NMO 44.99
NR-73BNMO Blk 2m/440 2.15/5.5db 34" NMO 57.99
NR-770HA 2m/440 3/5.5db 40" mobile ant .. 55.99
NR-770HB Black 2m/440 3/5.5db 40" mobile 58.99
NR-770HNMO 2m/440 3/5.5db 40" NMO mobile 57.99
NR-770HBNMO Blk 2m/440 3/5.5db 40" NMO 59.99
NR-770HRKS 2m/440 3/5.5db 40" adhesive mt 109.99
NR-7900A 2m/440 3.7/6.4db 57" hi pwr mob ant 84.99
SG-7000A 2m/440 2.15/3.8db 19" mobile 69.99
SG-7500A 2m/440 3.5/6db 41" mobile ant ... 72.99
SG-7500NMO 2m/440 3.5/6db 41" NMO ant .. 72.99
SG-7900A 2m/440 5/7.6db 62" mobile ant ... 109.99
SG-7900ANMO 2m/440 5/7.6db 62" NMO ant 114.99
K-400CNMO Hacth/tnk mt/coax; SG7900ANMO 69.99

TRI-BAND MOBILE ANTENNAS

CR-320A 2m/220/440 2.15/3.8/5.5db 36" .... $ 83.99
CR-320BNMO Black 2m/220/440 36" NMO ant 83.99
CR-627B 6m/2m/440 2.15/4.5/7.2db 60" ant 99.99
CR-627BNMO 6m/2m/440 2.15/4.5/7.2db 60" 99.99
HV-7A 10/6/2m/440 54" UHF mount mobile ant 109.99
HVC-7 40m loading coil for HV-7A/MV-3A . 44.99
HVC-14 20m loading coil for HV-7A/MV-3A 37.99
HVC-18 17m loading coil for HV-7A/MV-3A 37.99
HVC-21 15m loading coil for HV-7A/MV-3A 37.99
NR-2000NA 2m/440/1.2 3.15/6.3/9.7db 39" N mob 89.99

QUAD-BAND MOBILE ANTENNAS

CR-8900A 10m/6m/2m/440 0/0/2.15/5.5db 50" $ 99.99
D-220 2m/440/900/1.2G 35.5" mobile discone 109.99

ADHESIVE BACKED MOBILE MOUNT

HRKS SO239 mt/13' coax/SMA/PL259 adapter $ 69.99

MAGNET MOUNTS

DPK-4NM-N Hvy dty mag mt, cbl, N, 45" max $ 54.99
K-702M Hvy duty mag mt, 6⅜" dia, 50" max 49.99
SPM-35 Hvy duty mag mt, cable, 45" max 44.99
SPM-NMO Hvy dty NMO mag mt, cbl, 45" max 49.99

TRUNK LIP MOUNTING KITS

K-400 Hatch/trunk mt; NR/SG antennas ..... $ 39.99
K-400C Hatch/trunk mt w/coax; UHF mount . 73.99

Diamond - continued AES Price

K-400CNMO Hatch/trunk mt w/coax; NMO mt 73.99
K-400S Hatch/trunk mt w/coax; UHF mt/SMA 79.99
K-400SNMO Hatch/trunk mt w/coax; NMO/SMA 79.99
K-400-3/8C Trunk mount w/6.5' cable; ⅜-24 73.99
C-101-3/8C Extra cable assembly; K400-3/8C 34.99
K-412C Light duty hatch/tnk mt w/coax; UHF mt 64.99
K-412CNMO Light duty hatch/tnk mt w/coax; NMO 64.99
K-412S Light duty hatch/tnk mt w/coax; UHF/SMA 69.99
K-412SNMO Lt duty hatch/tnk mt/coax; NMO/SMA 69.99
K-600M Tilt angle SO-239 trunk mt w/cable . 59.99
K-600S Tilt angle SO-239 tnk mt w/cable/SMA 62.99
K-9000LRM Motorized luggage rack mount .. 109.99
K-9000LRMO Motor lug rack mt; o/s hardware 109.99
K-9000TM Motorized trunk/hatchback mt 109.99

MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S Lug rack SO-239 mt; new type SUV/SMA $ 69.99
K-515SNMO Lug rack NMO mt; new type SUV/SMA 69.99
K-540 Mirror/luggage rack mt; under 45" 35.99
K-540KM Mirror/luggage rack mt w/coax 59.99
K-550* Luggage mt; new mini vans (use GLP) 44.99
K-550KM* Luggage mt w/SO-239 base/coax 69.99
*K-550 series not recommended for Yae ATAS-100/120

MOUNTING GROUP HARDWARE

BNCJ-SMAP Low prof blk BNC-F to SMA-M adapt $ 9.99
C-101 SO-239 mt, 6.5' RG-316 low-loss coax 37.99
C-101-3/8C-KIT Upgrades any K400 to K400-3/8C 44.99
C-101-3/8C Extra cable assembly; K400-3/8C 34.99
C-101NMO NMO mt, 6.5' RG-316 low-loss coax 37.99
C-104SMA 4' RG-58 ext cbl; SMA male & SO-239 16.99
C-105SMA 5' RG-58 ext cable; C-101/SMA male 16.99
C-110 10' ext cable; C-101/K-601/K-400-3/8C 19.99
C-110BNC 10' extension cable to BNC male . 29.99
C-110SMA 10' RG-58 ext cable; C-101/SMA male 29.99
C-211 SO-239 mt, 6.5' coax, 10' coax entend 49.99
C-213 SO-239 mt, 13.5' RG-316 low-loss coax D 44.99
C-213SMA SO-239 mt, 13.5' RG-316 cbl/SMA male 44.99
C-213SNMO NMO mt, 13.5' RG-316 low-loss coax 44.99
CRM Stainless steel right angle bracket w/U-bolts 16.99

MONO-BAND BASE STATION ANTENNAS

A-144S5 2m 5 el 37.5" boom 9db beam ..... $ 59.99
KB-144 Side mounting bracket/hardware .. 24.99
A-430S10 430 10 el 43" boom 13db beam 69.99
KB-430 Side mounting bracket/hardware .. 22.99
A-430S15 430 15 el 89" boom 14.8db beam . 89.99
A-502HB 6m 2 el 2.6' boom 6.3db beam 99.99
CP-22E 2m 6.5db 9' base antenna 54.99
CP-62 6m 5.5db 22' base antenna 219.99
F-22A 2m 6.7db 10.5' base antenna 99.99
F-23H 2m 7.8db 15' base antenna 147.99
F-718A 440 11.5db 15' type N base antenna 199.99
F-1230All 1.2GHz 13.1db 12' N base ant 179.99
G-200 2.4GHz 11db 6' N base antenna .....Δ 99.99
2400-Y12 2.4GHz 12db 8el 15"bm 25w N beam Δ 59.99

DUAL-BAND BASE STATION ANTENNAS

CP-610 6/10m 5.5/3.4db 22' base antenna $269.99
X-30A 2m/440 3/5.5db 4.5' base antenna 69.99
X-50A 2m/440 4.5/7.2db 5.6' base antenna . 99.99
X-50NA 2m/440 4.5/7.2db 5.6' base N ant ... 99.99
X-200A 2m/440 6/8db 8.3' base antenna 124.99
X-300A 2m/440 6.5/9db 10' base antenna ... 149.99
X-300NA 2m/440 6.5/9db 10' base N ant 149.99
X-500HNA Hvy duty 2m/440 8.3/11.7db 17.8' N ant 289.99
X-510HDM 2m/440 8.3/11.7db 17.2' hi pwr ant 189.99
X-510HDN 2m/440 8.3/11.7db 17.2' hi pwr N ant 189.99
X-510NJ 143.5-146.5/428-442 8.3/11.7db 17.2' N 199.99

TRI-BAND BASE STATION ANTENNAS

D-130J 50-1300 MHz 200w discone antenna $ 99.99
D-130NJ 50-1300 MHz 200w N discone ant .. 99.99
V-2000A 52-54MHz/2m/440 2.1/6.2/8.4db 8.3' 159.99
X-3200A 2m/220/440 6/7.8/8db 10' base 189.99
X-6000A 2m/440/1.2 6.5/9/10db 10.5' N 199.99
BB-7V 2-30MHz 22' no radial vertical (use tuner) 399.99

Diamond - continued AES Price

CP-5H 40/20/15/10/6m 11.8' trap vert/radials 399.99
CP-6AR 75/40/20/15/10/6m 15.1' trap vert/radials 439.99
CP-725H 40/15/10/6m 11.67' trap vert/radials 359.99

DUPLEXERS & TRIPLEXERS

MX-37 440/1200MHz N/N duplexer w/cable D $ 49.99
MX-62M HF-6m &2m/440, 12" cables dplxr . 74.99
MX-72A HF-2m/440 dplxr/440 N female, 12" cbls 54.99
MX-72D HF-2m/440 400/150/100w duplexer 48.99
MX-72H HF-2m/440 duplexer w/12" cables .. 54.99
MX-72N HF-2m/440 dplxr, 440 type N male, 12" cbls 54.99
MX-324 2m/220/440 triplexer 89.99
MX-610 HF/6m-UHF duplexer 69.99
MX-2000 HF-6m/2m/440 400/400/250w triplexer 89.99
MX-3000 HF-2m/440/1.2 400/200/100w triplexer 79.99
MX-3000N HF-2m/440/1.2 400/200/100w N triplexer 85.99

ACCESSORIES

CA-23RP 2500MHz 200w N-F/N-M lightning protect D $ 39.99
CA-23RS 2500MHz 200w N lightning protector D 39.99
CA-23RW 2500MHz 200w N waterproof protector D 44.99
CX-210A 1.5kw DC-1GHz 2-pos coax switch . 49.99
CX-210N 1.5kw DC-3GHz 2-pos N coax switch 79.99
CX-310A HD 3-pos DC-800MHz coax switch . 89.99
DL-30A 15/100w peak 0-500MHz dummy load 39.99
DL-30N 15/100w peak 0-500MHz N dummy load 44.99
GZV-4000 Variable 40A switching ps/meter/spkr 179.99
GZV-6000 Variable 60A switching ps/meter/spkr 369.99
PC-3 10' DC cable w/T-connector for mob rig 11.99
SP-1000 1GHz 400w PEP lightning protector 29.99
SP-3000 3GHz 200wPEP N lightning protector 39.99
SP-3000W 3GHz 200wPEP N waterproof protector 44.99

DYNAMITE (DYN)

1000 Dyna-Sport 1500mah 6-cell flat nicad Δ $ 1.99
4010 Mega 1 AC/DC quick charger .....Δ 2.99

ECG (ECG)

U-105 Light duty antenna rotor/3-wire ..... $ 79.99
U-106 Light duty ant rotor/presets/IR rem/3-wire 89.99
TB-105 Thrust bearing for U-105/U-106 ... 19.99

ESP (ESP)

ESP-1 Microphone audio processor .....D $129.99

EASY-UP (UPS OK) (EAS)

EZ 5-16 5' 16 ga steel mast .....pick-up only $ 16.99
EZ 29-24S Stainless double strap chimney mt 29.99
EZ 30-24 Dlx wall mt w/extra 3rd leg support 39.99
EZ 31 Heavy duty adjustable eave mount 34.99
EZ 48-3ABX 3' boxed tripod w/pitch pad kit . 49.99
EZ 48-5ABX 5' boxed tripod w/pitch pad kit . 69.99

ELK Antennas (ELK)

2M/440-L5 2m/440 5el quick assembly LP beam $124.99
220-L6 220 6el quick assembly LP beam 107.99
440-L8 440 8el quick assembly LP beam 107.99
Elk Bag Canvas carrying bag for Elk antenna ... 24.99

GAP VERTICALS (GAP)

DX-VIII Challenger 75*/40/20/15/12/10/6/2m 31.5' $339.99
*80m CW w/capacitor exchange from GAP
Challenger **Counter**poise 39.99
(SYN) **100'** 3/32" black double braided rope .. 9.99
DX-VI Eagle 40/20/17/15/12/10m 21' rigid .. 369.99
DX-IV Voyager 160/80/40/20m 45'; use 350' guy 449.99
Voyager **Counter**poise 75.99
(SYN) **350'** 3/16" black double braided rope .. 49.99
Titan DX 75*/40/30/20/17/15/12/10m, 25' .. 399.99
*80m CW w/capacitor exchange from GAP
20M MONOGAP 16' 20m vert/radials/ground mt 129.99
40M MONOGAP 31' 40m vert/radials/ground mt 229.99
100' Guy Kit with clamp 17.99
200' Guy Kit with clamp 26.99
Ground Mount Quick tilt mt for vertical ant . 89.99
Ladder Mount Quick tilt mt; campers/RVs 89.99
ANEM Adjustable Hear It DSP in line noise elim 189.99

Gap - continued

	AES Price
Hear It DSP noise eliminating speaker	169.99
In Line Module Hear It DSP in line noise elim	219.99

GB (GBX)

OX-400 4 oz anti-corrosion compound Δ	$ 6.99

GRE (GRE)

PSR-100 Standard heldheld scanner	$ 99.99
PSR-300 Triple trunking handheld scanner	199.99
PSR-500 Digital triple trunking handheld scanner	449.99
PSR-200 Standard mobile/desktop scanner	99.99
PSR-400 Triple trunking mobile/desktop scanner	199.99
PSR-600 Digital triple trunking mob/desk scanner	449.99

GARMIN (GAR)

010-10048-00 Mounting bkt; 12CX/XL Δ	$ .99
010-10085-00 Cig lighter cable; GPS-72 Δ	6.99
010-10141-00 PC interface cable; GPS-72 Δ	9.99
010-10165-00 PC cable/cig adapt; GPS-72 Δ	14.99
010-10203-00 Cig cbl; eMAP & eTREX Δ	14.99
010-10206-00 PC interface cbl; eMAP/eTREX Δ	12.99
010-10227-00 Blank 8MB mem cartridge D	1.99
010-10468-00 MapSource MetroGuide CD D	19.99
cfQue-1620 GPS module for Pocket PC's D	69.99
GPS-18USB Dlx GPS sensor; laptop/USB/mag/soft Δ	89.99
iQue-3600 Handheld PDA w/integrated GPS D	249.99
GA-27C Low prof remote ant/cbl; iQue-3600 Δ	39.99
Rino-120 GPS/FRS/GMRS w/8mb mem/basemap Δ	119.99
010-10117-02 Carying case; Rino-120 Δ	1.99

GEAR KEEPER (GEA)

RT2-4012 Hvy duty Mic Keeper w/snap clip Δ	$ 10.99
RT3-4653 Locking HT Gear Keeper/swivel belt clip Δ	6.99

GLEN MARTIN (GME)

TOWERS

M-13A 13" wide alum 10' tower section T	$278.99
CHB-13 Footing assembly for M-13	134.99
CM-1300 Center mount for M-13	41.99
FB-13 Fixed base for M-13	139.99
HB-13 Hinge base for M-13	205.99
H-5 Aluminum Hazer system for M-13	463.99
M-18A 18" wide alum 10' tower section T	326.99
CHB-18 Footing assembly for M-18	147.99
FB-18 Fixed base for M-18	179.99
HB-18 Hinge base for M-18	309.99
H-6 Aluminum Hazer system for M-18	499.99

TOWER PACKAGES

M-1330A 30' alum tower package w/Hazer T	1934.99
M-1340A 40' alum tower package w/Hazer T	2184.99
M-1350A 50' alum tower package w/Hazer T	2438.99
M-1840A 40' alum tower package w/Hazer T	2504.99
M-1850A 50' alum tower package w/Hazer T	2809.99
KB-1000 57" side arm; M-13 series	97.99
KB-1300 57" side arm; M-18 series	101.99
ML-1800 Messenger line kit for GME towers	86.99

ROOF-TOP TOWERS

RT-424 4.5' roof-top tower, anodized aluminum	$196.99
RT-832 8' roof-top tower, anodized aluminum	289.99
RT-936 9' roof-top tower, anodized aluminum	475.99
RT-1832 17.5' roof-top tower, anodized aluminum	638.99
RT-2632 26' roof-top tower, anodized aluminum	1054.99
EL-3744 Concrete L-bolts, set of 8	18.99
LB-3755 Lag bolts, set of 8 (⅜ x 5")	11.99
MC-10 Mast clamp; aluminum, 2 required	29.99
RA-6024 24" side arm for roof towers	50.99
RA-6048 48" side arm for roof towers	66.99
RT-5505 Rubber mat, 18" x 48"	32.99
RT-8900 Non-penetrating roof mount base	539.99

HAZERS FOR ROHN TOWERS

H-2 Heavy duty aluminum Hazer system	$431.99
H-3 Standard duty aluminum Hazer system	327.99
H-4 Heavy duty galv steel Hazer system	416.99
BW-8001 Brake winch for H-2/3/4	96.99
HR-2040 Roller bearing set for Hazers	76.99

Glen Martin - continued

	AES Price
HR-6010 T²X plates for H-2/3/4/5	31.99
HS-1301 36" side arm for Hazers	77.99
ML-2500 Messenger line kit for Rohn towers	92.99

LIGHTNING PROTECTION

LR-8400 Premium lightning rod kit	$119.99
GR-4400 Ground rod wire clamp	8.99
GR-5080 8' x ⅝" ground rod	25.99
LR-8418 Lightning rod point, 1/2" x 18"	46.99
LR-8451 Clamp for holding rod to 1⅝" mast	29.99
LR-8452 Clamp for holding rod to 2" mast	30.99
TL-0470 Terminal lug	2.99

MASTS

M-1040 10' x 2" OD heavy duty galv steel mast T	$ 99.99
M-1049 9' x 2" OD heavy duty galv steel mast	92.99
MA-1040 10' x 1.92" OD medium duty alum mast T	109.99
MA-1049 9' x 1.92" OD medium duty alum mast	105.99
MA-1050 5' x 2" OD medium duty alum mast	73.99
MA-2010 10' x 2.375" OD heavy duty alum mast T	129.99
MA-2069 9' x 2.375" OD heavy duty alum mast	119.99
MA-5050 5' x 1.31" OD light duty alum mast	49.99
MP-1409 9' heavy duty fiberglass mast	154.99

TOWER CLIMBING EQUIPMENT

FP-56222 MB/LC/2-D/B-C/S-L harness	$ 81.99
FP-56224 MB/LC/2-D/B-C/L-XL harness	81.99
FP-56422 MB/LC/4-D/B-H-C/S-L harness	94.99
FP-56424 MB/LC/4-D/B-H-C/L-XL harness	94.99
FP-66611 TB/LC/6-D/B-H-C-SD/S harness	238.99
FP-66612 TB/LC/6-D/B-H-C-SD/M harness	238.99
FP-66613 TB/LC/6-D/B-H-C-SD/L harness	238.99
FP-66614 TB/LC/6-D/B-H-C-SD/XL harness	238.99
FP-75421 TB/LC/4-D/B-H-C/S harness	167.99
FP-75422 TB/LC/4-D/B-H-C/M harness	167.99
FP-75423 TB/LC/4-D/B-H-C/L harness	167.99
FP-75424 TB/LC/4-D/B-H-C/XL harness	167.99
FP-26004 1" x 4' web lanyard	30.99
FP-26006 1" x 6' web lanyard	30.99
FP-29022 1" x 2' Centurion lanyard	34.99
FP-29023 1" x 3' Centurion lanyard	34.99
FP-29024 1" x 4' Centurion lanyard	34.99
FP-29026 1" x 6' Centurion lanyard	34.99

All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. You can obtain shipping charges from any AES salesperson by phone or email. There is a $10 surcharge on all Glen Martin orders under $120. There is also a $75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.

GROTHE (GRO)

VS-2 Emergency vehicle siren	$ 89.99
VS-2LS/A Window mt siren/amber halogen spec ord	299.99
VS-2LS/B Window mt siren/blue halogen spec ord	299.99
VS-2LS/R Window mt siren/red halogen spec ord	299.99
VS-3 Volunteer vehicle PA/horn w/spkr	129.99
VS-4 P/A emergency vehicle siren w/spkr	139.99

GRUNDIG/ETON (GRU)

FR-100 AM/FM/clock/emergency light D	$ 6.99
FR-250 AM/FM/SW/flashlight/crank/cell cgr	49.99
FR-600 AM/FM/SW/SAME WX/light/solar/cell cgr	79.99
G-5 Portable AM/FM/SW receiver w/ps D	139.99
G-6 Portable AM/FM/SW/aircraft receiver w/ps	99.99
FREE M-400 AM/FM/SW Rcvr w/G-6! limited time!	
G-1100 Pocket AM/FM/SW receiver D	44.99
GM-300PE Gray mini AM/FM/SW receiver D	29.99
GS-350DL Black portable AM/FM/SW Rcvr w/ps	99.99
FREE M-400 AM/FM/SW Rcvr w/GS-350DL! limited time!	
HPH-1 Headphones Δ	19.99
Satellit 750 AM/FM/SW/aircraft receiver	299.99

HARGER (HRG)

	AES Price
GBIS18114AE ⅛" copper entrance ground bar kit	$ 39.99
GBIS18148AE ⅛" copper station ground bar kit	83.99
GEL3AE Package of 5 HD grounding lugs	26.99
GP1868.78AE ⅛" copper single pt gnd panel kit	76.99
GBX976AE NEMA-4x weatherproof enclosure	127.99

HEIL (HEI)

BM-5-iC Boom mic/sgl headset/adapter; Icom D	$ 39.99
BM-10-4 Boom mic/headset (HC-4)	99.99
BM-10-5 Boom mic/headset (HC-5)	99.99
BM-10-iC Boom mic/headset/adapter; Icom	119.99
PRO-SET-4 Deluxe boom mic/headset (HC-4)	129.99
PRO-SET-5 Deluxe boom mic/headset (HC-5)	129.99
PRO-SET-iC Dlx boom mic/headset/adapter; Icom	139.99
PRO-SET-PLUS Dlx boom mic/headset (HC4&5)	199.99
PRO-SET-PLUS-iC Dlx boom mic/hdset (HC4); Icom	219.99
AD-1-I Pro-Set 8-pin adapter cord for Icom	20.99
AD-1-IC Pro-Set 8-pin adapter cord; Icom	20.99
AD-1-ICM ProSet modular adapter cord; Ico	20.99
AD-1-IM Pro-Set modular adapter cord; Ico	20.99
AD-1-K Pro-Set 8-pin adapt cord; Kenwood	20.99
AD-1-K-M Pro-Set modular adapt cord; Ken	20.99
AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec	20.99
AD-1-Y Pro-Set 8-pin adapter cord; Yaesu	20.99
AD-1-Y-M Pro-Set modular adapt cord; Yae	20.99
QPP Quiet Phone Pro headset	149.99
AD-1-I Pro-Set 8-pin adapter cord for Icom	20.99
AD-1-IC Pro-Set 8-pin adapter cord; Icom	20.99
AD-1-ICM ProSet modular adapter cord; Ico	20.99
AD-1-IM Pro-Set modular adapter cord; Ico	20.99
AD-1-K Pro-Set 8-pin adapt cord; Kenwood	20.99
AD-1-K-M Pro-Set modular adapt cord; Ken	20.99
AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec	20.99
AD-1-Y Pro-Set 8-pin adapter cord; Yaesu	20.99
AD-1-Y-M Pro-Set modular adapt cord; Yae	20.99
MB-1-4 QPP boom with HC-4 element	79.99
MB-1-5 QPP boom with HC-5 element	79.99
MB-1-6 QPP boom with HC-6 element	79.99
MB-1-iC QPP boom w/Icom condenser element	79.99
HTSS Single side Traveler headset	69.99
HTDS Dual side Traveler headset	89.99
HSTA-IC8 Traveler adapter for Icom 8-pin	23.99
HSTA-IM Traveler adapter; Icom modular	23.99
HSTA-K8 Traveler adapter for Kenwood 8-pin	23.99
HSTA-KM Traveler adapter; Kenwood modular	23.99
HSTA-PC Traveler adapter for computer	23.99
HSTA-YM Traveler adapter; Yaesu 8-pin modular	23.99
HSTA-YM6 Traveler adapter; Yaesu 6-pin modular	23.99
HTA-IHT Traveler adapter for Icom HT	23.99
HTA-KHT Traveler adapter for Kenwood HT	23.99
HTA-VX Traveler adapter; Yaesu VX HT (not VX7)	23.99
GM-4 Goldline dual element studio mic w/HC-4	139.99
GM-5 Goldline dual element studio mic w/HC-5	139.99
HCL-4 Classic 1930's desk mic/studio el & HC-4 D	99.99
HCL-5 Classic 1930's desk mic/studio el & HC-5 D	99.99
HCL-iC Classic 1930's desk mic/studio el; Icom D	99.99
HM-10-Dual Mic w/HC-4 & HC-5 elements	128.99
ICM Pre-PRO Icom electret mic w/cable	105.99
CC-1-C ⅜" plug cable for Collins/Drake	41.99
CC-1-I 8-pin cable for Icom	35.99
CC-1-I-M Modular cable for Icom	35.99
CC-1-K 8-pin cable for Kenwood	35.99
CC-1-K-M Modular cable for Kenwood	35.99
CC-1-T 4-pin cable for Ten-Tec	35.99
CC-1-Y 8-pin cable for Yaesu	35.99
CC-1-Y-M Modular cable for Yaesu	35.99
PL-2T Topless proline boom	109.99
DT-1 Desk top flush mount	31.99
FL-2 Flange mount for PL-2T	25.99
RS-1 Riser 12" flange mount for PL-2T	25.99
SB-2 Small adjustable mic boom	55.99
HM-4 Handi-Mic hand microphone w/HC-4	85.99

Heil - continued

	AES Price
HM-5 Handi-Mic hand microphone w/HC-5 ..	85.99
HM-iC Handi-Mic hand mic/electret element; Ico	85.99
HM-PRO Handi-Mic hand mic/broadcast element	85.99
CH-1-I8 8-pin coiled cable for Icom	23.99
CH-1-I-M Modular coiled cable for Icom	23.99
CH-1-K8 8-pin coiled cable for Kenwood ...	23.99
CH-1-K-M Modular coiled cable for Kenwood	23.99
CH-1-Y-M Modular coiled cable for Yaesu .	23.99
PR-20 Cardioid dynamic studio microphone	149.99
PR-40 Broadcast & recording studio microphone	319.99
CC-1-XLR-I 3-pin XLR to 8-pin Icom cable	35.99
WSPR-40 Windscreen for PR-40	17.99
PR-781 Dynamic cardioid studio mic	179.99
CC-1-XLR-I 3-pin XLR to 8-pin Icom cable	35.99
CC-1-XLR-K 3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y 3-pin XLR to 8-pin Yaesu cable	35.99
WSPR-40 Windscreen	17.99
HQP Quiet Phone Noise cancelling headphones D	79.99
AD-100 Mic/boomset adapt; FT-100/AD-1Y/CC-1Y	20.99
ADMY-817* 8pmale - 8pmodular adapt;817/897 *PTT/mic only, no other functions	25.99
Boom Clip for BM-series	5.99
CB-1-PTT Classic base w/soft PTT switch	69.99
Ear Pads for **Pro**-Set series .....pair	6.99
FS-2 Dual switch foot switch	38.99
Ham Radio Handbook	10.00
HD-AT 6db headph attenuator, ⅛"m-¼"f adapt	6.99
HS-2 Magnum ergonomic hand switch	29.99
HW-20 20' Heilwire	20.99
SM-1 Shock mount for 1" stem diameter mic	72.99
SM-2B Black shock mt; 2" stem diameter mic	95.99
TM-1 Tri-mount microphone adapter	14.99
XT-1 Audio matching xfmr; lo-Z mic/tube Xcvr	15.99

HIGH SIERRA (HIS)

Sidekick w/**i-box** 3.5-60 mobile w/3' whip; Icom Δ	$439.99
HS-202CL 2" rcvr lay back adapter; univ mtg bkt Δ	119.99
HS-214CL 1¼" rcvr lay back adapt; univ mtg bkt Δ	49.99
Tripod Deluxe 6' tripod/3/8-24/SO239/8 radials Δ	119.99

House of Deals (HOU)

FL-3232T 32 LED/3 D flashlight	$ 24.99
FL-8211B 11 LED/3 AAA head/bike lamp	9.99

HUSTLER (HUS)

RM-80 80m CW 400w PEP resonator	$ 32.99
RM-75 75m phone 400w PEP resonator	32.99
RM-60 60m phone 400w PEP resonator	32.99
RM-40 40m 400w PEP resonator	29.99
RM-30 30m 400w PEP resonator	29.99
RM-20 20m 400w PEP resonator	27.99
RM-17 17m 400w PEP resonator	27.99
RM-15 15m 400w PEP resonator	19.99
RM-12 12m 400w PEP resonator	19.99
RM-11 CB 400w PEP resonator	19.99
RM-10 10m 400w PEP resonator	19.99
RM-80S 80m CW 2kw PEP resonator	59.99
RM-75S 75m phone 2kw PEP resonator	59.99
RM-40S 40m 2kw PEP resonator	43.99
RM-20S 20m 2kw PEP resonator	34.99
RM-15S 15m 2kw PEP resonator	30.99
RM-11S CB 2kw PEP resonator	27.99
RM-10S 10m 2kw PEP resonator	27.99
MO-1 54" mast for fender or deck mount	39.99
MO-2 54" mast for bumper mount	39.99
MO-3 54" no break-over mast	29.99
MO-4 22" mast for special applications	24.99
VP-1 Tri-band adapter	8.99
RSS-2 Resonator spring	14.99
QD-2 Stainless quick disconnect	25.99
L-14-144 12' RG-58, PL-259 to lugs	9.99
L-14-240 20' RG-58, PL-259 to lugs	12.99

STAINLESS 2" MOBILE BALL MOUNTS

SSM-1 Ball & spring, cadmium hardware	$ 56.99

Hustler - continued

	AES Price
SSM-2 Ball, cadmium hardware	33.99
SSM-3 Stainless steel spring	31.99

1-1/2" MOBILE BALL MOUNTS

C-32 Chrome plated ball	$ 22.99
C-30 Chrome plated spring	16.99
C-29 Stainless steel spring	22.99
BM-1 Single strap bumper mt w/C-32	27.99

3/8-24 THREAD MOBILE MOUNTS

HLM Trunk lip mount w/swivel	$ 26.99
HOT Hustloff trunk lip mt w/swivel	27.99
MBM Super magnet mount w/16' coax	24.99
RVM Recreational vehicle mount	24.99
TLM Trunk lip mount	25.99

HF ANTENNAS

4-BTV 40/20/15/10m 21' trap vertical	$159.99
5-BTV 80/40/20/15/10m 25' trap vertical	189.99
30-MTK 30m trap kit for 4-BTV/5-BTV	49.99
6-BTV 80/40/30/20/15/10m 24' trap vert	209.99

VHF/UHF BASE STATION ANTENNAS

G3-144 2m 3db 7.5' vertical antenna	$ 79.99
G6-144B 2m 6db 10' vertical antenna	149.99
G6-270R 2m/440 6db 7.5' base station ant .	199.99
G7-144 2m 7db 15' vertical antenna	199.99
G7-220 220 MHz 7db 10' vertical antenna ...	174.99
G6-440 440 MHz 6db 7' vertical antenna	189.99

VHF/UHF MOBILE ANTENNAS

BBG-144 2m 3.4db NMO coil/whip only	$ 49.99
BBGT-144 2m 3.4db NMO trunk lip mt ant ...	57.99
BBG-440-5 440 5db NMO coil/whip only ....Δ	39.99
BBGT-440-5 440 5db NMO trunk lip mt ant Δ	39.99
CG-144 2m ⅜-24 ant, 7' high, 5.2db	39.99
CGT-144 2m trunk mt ant, 7' high, 5.2db	59.99
CG-220 220 MHz ⅜-24 ant, 5.2db	39.99
CGT-220 220 trunk mt ant, 5.2db	49.99
LMB-144 2m 3.4db black NMO coil/whip only	23.99
LMB-440-5 440 5db black NMO coil/whip only Δ	19.99
LMC-144 2m 3.4db NMO coil/whip only	25.99
LMC-270 2m/440 2.4/4db NMO coil/whip only	36.99
LMC-440-5 440 5db NMO coil/whip only ....Δ	19.99
LMG-144 2m 3.4db NMO pushpin coil/whip only	27.99
LMG-440-5 440 5db NMO pushpin coil/whip only Δ	19.99
MKR-2 Radial kit for CG/RX/SF-antennas	25.99
MX-2 2m 3.4db black & chrome NMO mag ant	39.99
MX-2B 2m 3.4db all black NMO mag mt ant	44.99
MX-220 220 3.4db blk & chrome NMO mag ant ..	39.99
MX-270 2m/440 2.4/4db chrome NMO mag mt ant	64.99
MX-440 440 5db blk & chrome NMO mag mt ant Δ	39.99
MX-440B 440 5db all black NMO mag mt ant Δ	39.99
RX-2 2m 3.4db magnetic mount ant	29.99
RX-220 220 3.4db magnetic mt antenna ...Δ	19.99
RX-440 440 5db magnetic mt antenna .....Δ	19.99
SF-2 2m ⅜-24 ant, 4' high, 3.4 db	17.99
SF-220 220 MHz ⅜-24 antenna, 3.4 db .....Δ	14.99
THF 140-500 MHz ¼ wave trunk mount ant ..	26.99
UGM 140-500 MHz ¼ wave BNC mag mt ant	23.99
UHT-1 140-500 MHz ¼ wave roof mt ant ....Δ	14.99

CB & MONITOR ANTENNAS

1C-11 White trunk mount CB antenna	$ 19.99
1C-11B Black trunk mt CB antenna	19.99
1C-56 102" stainless whip .....pick-up only	21.99
1C-100 White magnetic mount CB antenna .	25.99
1C-100B Black magnetic mt CB antenna	25.99
FG-27S 48" CB whip	17.99
HQ-27 Power Packer ⅜-24 CB whip	23.99
HQ-27M Power Packer trunk mt CB antenna	42.99
HQD Dual fg mirror mount CB antenna	59.99
HQT Single fg mirror mount CB antenna	33.99
RQM Magnetic mount CB antenna	23.99
RTG-27L 25" CB antenna w/rain gutter mt Δ	29.99
RTM 25" magnetic mount CB antenna	19.99
RTS-27L 25" CB antenna w/roof mount	28.99
SCB/BLK 46" black CB whip	39.99
SCB/RED 46" red CB whip .....D	29.99

Hustler - continued

	AES Price
SCB/WHT 46" white CB whip .....D	29.99
SCB-S/BLK 35" black CB whip	39.99
SCB-S/RED 35" red CB whip .....D	29.99
SCB-S/WHT 35" white CB whip .....D	29.99
DCL-B Discone monitor ant/50' coax/BNC plug	39.99
DCX Discone monitor ant; 40-700 MHz	26.99
MOR-B Roof/deck mt tri-band BNC monitor ant	24.99
MOT-B Trunk lip mt tri-band BNC monitor ant	25.99
MRM-B Magnet mt tri-band BNC monitor ant	21.99

HY-GAIN (HYG)

HF BEAM ANTENNAS

LJ-103BA 3el 7.9db 8' boom 10m beam	$159.99
LJ-105CA 5el 10.8db 24' boom 10m beam ...	279.99
LJ-153BA 3el 7.9db 12' boom 15m beam	199.99
LJ-204BA 4el 8.2db 26' boom 20 or 17m beam	499.99
TH-3JRS 3el 600w PEP 20/15/10m beam	359.99
TH-3MK4 3el 8db 14' boom 20/15/10m beam	469.99
TH-5MK2 5el 8.3db 19' boom 20/15/10m beam	699.99
TH-7DX 7el 8.77db 24' boom 20/15/10m beam	799.99
BN-86 3-30MHz balun for HF beam	79.99

MULTI-BAND HF VERTICAL ANTENNAS

AV-14AVQ 40/20/15/10m 18' vertical ant	$169.99
AV-18AVQ II 80/40/20/15/10m vertical ant ..	229.99
AV-18HT HyTower 80/40/20/15/10m 53' vert T*	949.99

***AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.**

AV-18HT-JR HyTower Jr 80/40/20/15/10m 39' vert	349.99
AV-620 20/17/15/12/10/6m 22.5' vertical	299.99
AV-640 40/30/20/17/15/12/10/6m 25.5' vert	399.99
DX-88 80/40/30/20/17/15/12/10m 25' vert ..	369.99

VHF/UHF ANTENNAS

DB-218SAT VHF/UHF Oscar Link system	$529.99
VB-25FM 5el 11.2db 75" boom 2m beam	59.99
VB-64DX 4el 10.4db 12' boom 6m beam	144.99

ANTENNA ROTORS

AR-40 3 sq ft antenna rotor/5-wire	$329.99
CD-45-II 8.5 sq ft antenna rotor/8-wire	429.99
HAM-IV 15 sq ft antenna rotor/8-wire	619.99
HAM-V Digital 15 sq ft antenna rotor/8-wire	929.99
HDR-300A Hvy duty dig 25 sq ft rotor/8-wire	1349.99
T-2X Tailtwister 20 sq ft antenna rotor/8-wire	729.99
T-2XD Tailtwister dig 20 sq ft ant rotor/8-wire	1179.99

OPTIONAL ACCESSORIES FOR ROTORS

DCU-1 Dig rotor control; CD-45/HAM-IV/T-2X	$699.99
MSHD Lwr mast support; HAM-IV/V/T-2X/XD	109.99
MSLD Lower mast support; CD-45-II/AR-40 .	49.99
TSP-1 Tower spacer plate	34.99

See JSC or Belden for rotor cable

IBS (IBS)

2009 2009 Passport to Worldband Radio ...D	$ 22.95

ICOM (ICO)

IC-7800 Dlx 200w HF+6m Xcvr/IF-DSP/tuner/ps	Call/Web
(BET) **I-Mate** Message accessory	74.99
CT-17 CI-V level converter	144.99
HM-36 Scanning hand mic	79.99
SM-20 Electret desk microphone	219.99
SM-50 Dynamic desk microphone	279.99
SP-20 Speaker w/audio filters	264.99
SP-23 Speaker w/audio filters	199.99
IC-7700 200w single RX HF/6m Xcvr/ps	Call/Web
(BET) **I-Mate** Message accessory	74.99
CT-17 CI-V level converter	144.99
HM-36 Scanning hand mic	79.99

Icom - continued — AES Price

SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
SP-20 Speaker w/audio filters 264.99
SP-23 Speaker w/audio filters 199.99
IC-7600 100w HF/6m transceiver .....Call/Web
USB keyboard included with IC-7600 purchase! Ltd Time
PS-126 25A 4-pin switching power supply 329.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 389.99
AH-2B extra **whip only** .....Δ 79.99
CT-17 CI-V level converter 144.99
SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
SP-23 Speaker w/audio filters 199.99
IC-756PRO III Xcvr/6m/IF-DSP/tuner/kyr .D,Call/Web
PS-125 included with IC-756PROIII purchase until gone!
(BET) **I-Mate** Message accessory 74.99
PS-125 25A switching power supply 249.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 389.99
AH-2B extra **whip only** .....Δ 79.99
CT-17 CI-V level converter 144.99
OPC-025D Extra DC cable 32.99
SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
SP-20 Speaker w/audio filters 264.99
SP-23 Speaker w/audio filters 199.99
UT-102 Voice synthesizer 69.99
IC-746PRO Xcv/Rcv/6m/2m/IFDSP/tuner/mic .... Call/Web
PS-125 included with IC-746PRO purchase!
(BET) **I-Mate** Message accessory 74.99
PS-125 25A switching power supply 249.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 389.99
AH-2B extra **whip only** .....Δ 79.99
CR-338 High stability crystal unit 79.99
CT-17 CI-V level converter 144.99
OPC-025D Extra DC cable 32.99
SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
SP-20 Speaker w/audio filters 264.99
SP-23 Speaker w/audio filters 199.99
UT-102 Voice synthesizer 69.99
IC-718 HF Xcvr/SW Rcvr/mic w/DSP ..... Call/Web
(BET) **706 Tune Control** for IC-718 ..... 32.99
(W4R) **OBF-703/718-DIY** CW&SB Collins filts 249.99
PS-125 25A switching power supply 249.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 389.99
AH-2B extra **whip only** .....Δ 79.99
AT-180 Auto coax antenna tuner; HF+6m .. 369.99
OPC-598 23' extension cable; AT-180 ..D 69.99
CR-338 High stability crystal unit 89.99
CT-17 CI-V level converter 144.99
FL-52A 500 Hz 455 KHz IF CW filter 199.99
FL-53A 250 Hz 455 KHz IF CW filter 199.99
FL-222 1.9 KHz 455 KHz IF SSB filter 219.99
FL-257 3.3 KHz 455 KHz IF SSB filter 199.99
Suggest dealer installation of filters in IC-718
MB-5 Mobile mount 59.99
MB-23 Side mount carrying handle 17.99
OPC-025D Extra DC cable 32.99
OPC-599 7+8-pin to 13-pin adapter 66.99
SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
SP-5 Mobile speaker 59.99
SP-20 Speaker w/audio filters 264.99
SP-23 Speaker w/audio filters 199.99
UT-102 Voice synthesizer 69.99
IC-703 Plus 10w mini HF+6m Xcvr/tuner/DSP Call/Web
(W4R) **OBF-703/718-DIY** CW&SB Collins filts 249.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 389.99
AH-2B extra **whip only** .....Δ 79.99

Icom - continued — AES Price

AH-703 40/20/15/10/6m 20w 4.6' antenna 199.99
BC-155A Battery charger for BP-228 .....Δ 32.99
CT-17 CI-V level converter 144.99
FL-52A 500 Hz 455 KHz IF CW filter 199.99
FL-53A 250 Hz 455 KHz IF CW filter 199.99
FL-222 1.9 KHz 455 KHz IF SSB filter 219.99
FL-257 3.3 KHz 455 KHz IF SSB filter 199.99
Suggest dealer installation of filters in IC-703 series
HM-154T TTP microphone 83.99
LC-156 Back pack carrying case 99.99
MB-62 Mounting bracket for main unit 28.99
MB-63 Mounting bracket for control panel 20.99
MB-72 Carrying handle 15.99
MB-120 Mounting base platform 65.99
OPC-581 11.5' separation cable 66.99
OPC-587 16' separation cable 87.99
OPC-599 7+8-pin to 13-pin adapter 66.99
OPC-742 13-pin cable 59.99
OPC-1229 Extra DC cable 31.99
OPC-1248 IC-703 to PS-125 cable 15.99
RMK-706 Package; MB-62/MB-63/OPC-581 77.99
SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
OPC-589 8-pin to jack adapt; SM-6/8/20/50 39.99
SP-10 Slim-line external speaker 76.99
UT-102 Voice synthesizer 69.99
IC-706 Mk II-G Mini HF Xcvr/6m/2m/440/DSP Call/Web
RMK-706 included with IC-706 Mk II-G purchase!
(BET) **706 Tune Control** for IC-706 series ... 32.99
PS-125 25A switching power supply 249.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 389.99
AH-2B extra **whip only** .....Δ 79.99
AT-180 Auto coax antenna tuner; HF+6m .. 369.99
OPC-598 23' extension cable; AT-180 ..D 69.99
CR-282 High stability crystal unit; Mk II G . 159.99
Suggest dealer install; CR-282, IC-706 Mk II-G
CT-17 CI-V level converter 144.99
FL-100 500 Hz 9 MHz IF CW filter 119.99
FL-101 250 Hz 9 MHz IF CW filter 119.99
FL-103 2.8 KHz 9 MHz IF SSB filter 119.99
FL-223 1.9 KHz 9 MHz IF SSB filter 99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter 99.99
HM-154T TTP microphone 83.99
LC-156 Back pack carrying case 99.99
MB-62 Mounting bracket for main unit 28.99
MB-63 Mounting bracket for control panel 20.99
MB-72 Carrying handle; Mk II-G only 15.99
MB-120 Mounting base platform 65.99
OPC-025D Extra DC cable 32.99
OPC-581 11.5' separation cable 66.99
OPC-587 16' separation cable 87.99
OPC-599 7+8-pin to 13-pin adapter 66.99
OPC-742 13-pin cable 59.99
RMK-706 Package; MB-62/MB-63/OPC-581 77.99
SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
OPC-589 8-pin to jack adapt; SM-6/8/20/50 39.99
SP-10 Slim-line external speaker 76.99
UT-102 Voice synthesizer 69.99
IC-7000 Deluxe mini HF/6m/2m/440 Xcvr ... Call/Web
RMK-7000 included with IC-7000 purchase!
(BET) **7000 Screwdriver Control*** for IC-7000 84.99
*Requires 7000 Tune Control also
(BET) **7000 Tune Control** for IC-7000 ..... 54.99
PS-126 25A 4-pin switching power supply 329.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 389.99
AH-2B extra **whip only** .....Δ 79.99
AT-180 Auto coax antenna tuner; HF+6m .. 369.99
OPC-598 23' extension cable; AT-180 ..D 69.99
CT-17 CI-V level converter 144.99
HM-154T TTP microphone 83.99
LC-156 Back pack carrying case 99.99

Icom - continued — AES Price

MB-62 Mounting bracket for main unit 28.99
MB-105 Remote head bracket .....† 14.99
MB-106 Carry handle 22.99
MB-120 Mounting base (MB-105 required) 65.99
OPC-599 7+8-pin to 13-pin adapter 66.99
OPC-742 13-pin cable 59.99
OPC-1443 11.5' remote cable .....† 39.99
OPC-1444 16' remote cable 79.99
OPC-1457 Extra DC cable 31.99
RMK-7000 Package; MB-62, MB-105, OPC-1443 99.99
SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
OPC-589 8-pin to jack adapt; SM-6/8/20/50 39.99
SP-10 Slim-line external speaker 76.99
IC-7200 HF/6m rugged Xcvr ..... Call/Web
PS-126 25A 4-pin switching power supply 329.99
AH-4 80-6m 120w auto wire ant tuner 259.99
AH-2B Whip w/mt; 40-6m use tuner 389.99
AH-2B extra **whip only** .....Δ 79.99
AT-180 Auto coax antenna tuner; HF+6m .. 369.99
OPC-598 23' extension cable; AT-180 ..D 69.99
CT-17 CI-V level converter 144.99
MB-116 Front handles 86.99
MB-117 Carrying handle 28.99
MB-118 Mobile mounting bracket 28.99
OPC-599 7+8-pin to 13-pin adapter 66.99
OPC-1457 Extra DC cable 31.99
SM-20 Electret desk microphone 219.99
SM-50 Dynamic desk microphone 279.99
SP-10 Slim-line external speaker 76.99
SP-20 Speaker w/audio filters 264.99
SP-23 Speaker w/audio filters 199.99
AH-710 1.9-30 MHz 80' folded dipole/98' coax 299.99
PW-1 160-15+6m linear amplifier/ps/tuner Call/Web

RECEIVERS

R-5-Sport-06 .15M-1.3G hand/no batts/cell blkd . Call/Web
R-5-Sport-11* HH Rcvr/restricted sales! spec order Call/Web
AD-92SMA SMA- BNC adapter 18.99
CP-18A Cig lighter cable 33.99
CS-R5 Win programming software 39.99
OPC-474 Cloning cable (R-5 to R-5) 19.99
OPC-478 PC RS-232C cable 47.99
OPC-478U/UC PC USB cable 66.99
HP-4 Lightweight headphones 32.99
LC-146A Carrying case 26.99
SP-13 Earphone 4.99
R-3-27* Rcvr/TV/restricted sales! special order Call/Web
BC-135 Desktop charger w/adapter cup .Δ 39.99
BP-206 3.7v 1650mah lith ion battery 69.99
CP-18A Cig lighter cable 33.99
CS-R3 Win programming software .....Δ 9.99
OPC-474 Cloning cable (R-3 to R-3) 19.99
OPC-478 PC RS-232C cable 47.99
OPC-478U/UC PC USB cable 66.99
HP-4 Lightweight headphones 32.99
LC-151 Carrying case .....Δ 6.99
SP-13 Earphone 4.99
RX-7-05 Handheld receiver/cell blkd ..... Call/Web
RX-7-10 Rcvr/restricted sales! special order Call/Web
AD-92SMA SMA- BNC adapter 18.99
BP-244 3.7v 1100mah lith ion battery 46.99
BP-262 Battery case for 3 AA's 26.99
CP-18A Cig lighter cable 33.99
CS-RX7 Cloning software/USB cable; RX-7 60.99
CT-17 CI-V level converter 144.99
HP-4 Lightweight headphones 32.99
LC-170 Carrying case 35.99
OPC-474 Cloning cable (RX-7 to RX-7) 19.99
OPC-478U/UC PC USB cable 66.99
SP-13 Earphone 4.99
R-20-06 150KHz-3.3GHz handheld Rcvr/cell blkd Call/Web
R-20-11* Rcvr/restricted sales! special order Call/Web
BC-156-02 Desktop charger 88.99
BP-206 Extra 3.7v 1650mah lith ion batt . 69.99

Icom - continued — AES Price

CP-18A Cig lighter cable	33.99
CS-R20 Cloning software/USB cable; R-20	59.99
CT-17 CI-V level converter	144.99
LC-158 Carrying case	32.99
MB-86 Swivel belt clip	10.99
SP-13 Earphone	4.99
PCR-1500-25 PC control Receiver/cell blkd	DCall/Web
Bon CS4.5 included with PCR-1500-25 purchase until gone!	
PCR-1500-30* PC Rcv/restricted sales! D,spec order	Call/Web
AH-7000 25-1300 MHz discone/50'coax ..D	189.99
AH-8000 100-3300MHz discone ant/49'cbl/N	249.99
BON CS-4.5 Bonito software	76.99
CP-12L Right angle cig cable w/filter	40.99
OPC-254L Right angle mini DC pwr cable	15.99
OPC-441 16.4' speaker extension cable	36.99
SP-10 Slim-line external speaker	76.99
UT-106 Plug-in DSP unit	149.99
R-1500-05 Receiver w/remote head/cell blkd	Call/Web
Bon CS4.5 included with R-1500-05 purchase!	
R-1500-10* Rcvr/restricted sales! special order	Call/Web
AH-7000 25-1300 MHz discone/50'coax ..D	189.99
AH-8000 100-3300MHz discone ant/49'cbl/N	249.99
BON CS-4.5 Bonito software	76.99
CP-12L Right angle cig cable w/filter	40.99
OPC-254L Right angle mini DC pwr cable	15.99
OPC-441 16.4' speaker extension cable	36.99
SP-10 Slim-line external speaker	76.99
UT-106 Plug-in DSP unit	149.99
PCR-2500-25 Advanced PC ctl Rcvr/cell blkd	DCall/Web
Bon CS4.5 included with PCR-2500-25 purchase until gone!	
PCR-2500-30* PC Rcv/restricted sales! D,spec order	Call/Web
AH-7000 25-1300 MHz discone/50'coax ..D	189.99
AH-8000 100-3300MHz discone ant/49'cbl/N	249.99
BON CS-4.5 Bonito software	76.99
CP-12L Right angle cig cable w/filter	40.99
OPC-254L Right angle mini DC pwr cable	15.99
OPC-441 16.4' speaker extension cable	36.99
SP-10 Slim-line external speaker	76.99
UT-106 Plug-in DSP unit	149.99
UT-108 DTMF decoder unit	37.99
UT-118 Digital board	199.99
UT-122 P-25 digital board †	149.99
R-2500-05 Advanced Rcvr w/rem head/cell blkd	Call/Web
Bon CS4.5 included with R-2500-05 purchase!	
R-2500-10* Rcvr/restricted sales! special order	Call/Web
AH-7000 25-1300 MHz discone/50'coax ..D	189.99
AH-8000 100-3300MHz discone ant/49'cbl/N	249.99
BON CS-4.5 Bonito software	76.99
CP-12L Right angle cig cable w/filter	40.99
OPC-254L Right angle mini DC pwr cable	15.99
OPC-441 16.4' speaker extension cable	36.99
SP-10 Slim-line external speaker	76.99
UT-106 Plug-in DSP unit	149.99
UT-108 DTMF decoder unit	37.99
UT-118 Digital board	199.99
UT-122 P-25 digital board †	149.99
CS-R10 DOS programming software; R-10 D	.29
R-75 .03-60 MHz shortwave Rcvr/DSP	Call/Web
CR-282 High stability crystal unit	159.99
CT-17 CI-V level converter	144.99
FL-52A 500 Hz 455 KHz IF CW filter	199.99
FL-53A 250 Hz 455 KHz IF CW filter	199.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	119.99
FL-222 1.9 KHz 455 KHz IF SSB filter	219.99
FL-223 1.9 KHz 9 MHz IF SSB filter	99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	99.99
FL-257 3.3 KHz 455 KHz IF SSB filter	199.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	17.99
OPC-869 DC cable D	49.99
RS-R75 PC control software w/RS-232 cable	69.99
OPC-478 PC RS-232C cable	47.99

Icom - continued — AES Price

SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	69.99
R-8500* Rcvr/restricted sales! special order	Call/Web
AH-7000 25-1300 MHz discone/50'coax ..D	189.99
AH-8000 100-3300MHz discone ant/49'cbl/N	249.99
CR-293 High stability xtal unit	299.99
FL-52A 500 Hz CW filter	199.99
MB-12 Mobile mount; R-8500 D	14.99
MB-23 Side mount carrying handle	17.99
RS-R8500 PC control soft w/RS-232 cbl spec ord	69.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	69.99
R-9500-02 Deluxe Receiver special order	Call/Web
R-9500-06* Rcvr/restricted sales! special order	Call/Web
AH-7000 25-1300 MHz discone/50'coax ..D	189.99
AH-8000 100-3300MHz discone ant/49'cbl/N	249.99
CT-17 CI-V level converter	144.99
SP-20 Speaker w/audio filters	264.99
UT-122 P-25 digital board †	149.99

*United States government agencies **ONLY** may purchase unblocked models of PCR-1500/PCR-2500/R-3/R-5/R-20/R-1500/R-2500/R-8500/R-9500/RX-7 for official government use only. State and local governments may purchase R-2500/R-9500 unblocked only also. Mail or FAX purchase order to AES. Exports: inquire.

BC-96 Wireless mic holder; IC-2100H D	1.99
CS-2720 Win/DOS clone software; IC-2720H Δ	19.99
HM-133S Extra TTP mic; IC-2100H Δ	99.99
MB-84 Remote controller bracket; IC-2720H Δ	12.99
OPC-1156 11.5' separation cable; IC-2720H Δ	14.99
IC-2200H 65w 2m FM Xcvr w/WX alert	Call/Web
CS-2200H Windows cloning software	62.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
MB-28H Mobile mounting bracket	29.99
OPC-347 23' DC cable	49.99
OPC-440 16.4' mic extension cable	89.99
OPC-441 16.4' speaker extension cable	36.99
OPC-474 Radio to radio cloning cable	19.99
OPC-589 8-pin mic jack adapter cable	39.99
OPC-1132 9.8' DC cable	31.99
SP-10 Slim-line external speaker	76.99
UT-108 DTMF decoder unit	37.99
UT-118 Digital board	199.99
IC-V8000 75w 2m FM Xcvr w/WX alert/scan	Call/Web
CS-V8000 Windows cloning software	39.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
OPC-347 23' DC cable	49.99
OPC-440 16.4' mic extension cable	89.99
OPC-441 16.4' speaker extension cable	36.99
OPC-474 Radio to radio cloning cable	19.99
OPC-589 8-pin mic jack adapter cable	39.99
OPC-1132 9.8' DC cable	31.99
SP-10 Slim-line external speaker	76.99
UT-108 DTMF decoder unit	37.99
V8000-MMB Extra mobile bracket	29.99
IC-208H 55w 2m/50w 440 FM Xcvr/WX alert	Call/Web
CS-208 Win cloning software	39.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
MB-28H Mobile mounting bracket	29.99
MB-58 Remote controller bracket	43.99
MB-120 Mounting base platform; MB-58	65.99
OPC-347 23' DC cable	49.99
OPC-440 16.4' mic extension cable	89.99
OPC-441 16.4' speaker extension cable	36.99
OPC-474 Radio to radio cloning cable	19.99
OPC-589 8-pin mic jack adapter cable	39.99
OPC-601R 23' separation cable	69.99
OPC-1132 9.8' DC cable	31.99
SP-10 Slim-line external speaker	76.99

Icom - continued — AES Price

IC-2820H 50w 2m/50w 440 FM Xcvr	Call/Web
CS-2820 Win cloning software	39.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
MB-120 Mounting base platform	65.99
OPC-347 23' DC cable	49.99
OPC-440 16.4' mic extension cable	89.99
OPC-441 16.4' speaker extension cable	36.99
OPC-474 Radio to radio cloning cable	19.99
OPC-589 8-pin mic jack adapter cable	39.99
OPC-1132 9.8' DC cable	31.99
OPC-1529R Data communications cable	28.99
SP-10 Slim-line external speaker	76.99
UT-123 DV mode & GPS receiver	309.99
V8000-MMB Extra mobile bracket	29.99
IC-910H 100w 2m/75w 430 FM/SSB Xcvr	Call/Web
PS-125 25A switching power supply	249.99
AG-25 2m mast mounted GaSFET preamp	179.99
AG-35 430 MHz mast mounted preamp	189.99
CR-293 High stability xtal unit	299.99
CT-17 CI-V level converter	144.99
FL-132 500 Hz main Rcvr CW filter	129.99
FL-133 500 Hz sub band Rcvr CW filter	129.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	17.99
SM-20 Electret desk microphone	219.99
SM-50 Dynamic desk microphone	279.99
SP-10 Slim-line external speaker	76.99
UT-102 Voice synthesizer	69.99
UT-106 Plug-in DSP unit (one per band)	149.99
UX-910 10w 1.2GHz module	589.99
ID-1 10w 1.2GHz FM/128k analog/digital Xcvr	Call/Web
MB-28H Mobile mounting bracket	29.99
OPC-347 23' DC cable	49.99
OPC-440 16.4' mic extension cable	89.99
OPC-441 16.4' speaker extension cable	36.99
OPC-1132 9.8' DC cable	31.99
SP-10 Slim-line external speaker	76.99
ID-800 55w 2m/50w 440 FM D-Star ready Xcvr D	Call/Web
CS-D800 included with ID-800 purchase until gone!	
CS-D800 Cloning software Δ	39.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
MB-28H Mobile mounting bracket	29.99
OPC-347 23' DC cable	49.99
OPC-440 16.4' mic extension cable	89.99
OPC-441 16.4' speaker extension cable	36.99
OPC-601R 23' separation cable	69.99
OPC-1132 9.8' DC cable	31.99
OPC-1384 RS-232C data cable Δ	34.99
SP-10 Slim-line external speaker	76.99
ID-880H 50w 2m/440 D-Star ready Xcvr	Call/Web
MB-120 Mounting base platform	65.99
OPC-347 23' DC cable	49.99
OPC-440 16.4' mic extension cable	89.99
OPC-441 16.4' speaker extension cable	36.99
OPC-474 Cloning cable (radio to radio)	19.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
OPC-589 8-pin mic jack adapter cable	39.99
OPC-1132 9.8' DC cable	31.99
OPC-1529R Data communications cable	28.99
SP-10 Slim-line external speaker	76.99
IC-80AD 5w 2m/440 D-Star ready HT	Call/Web
AD-92SMA SMA- BNC adapter	18.99
BC-139 Desk rapid charger	99.99
BP-216 Battery case for 2 AA	39.99
BP-217 7.4v 1300mah lith ion battery	99.99
CP-19R Cig lighter cable w/filter	48.99
HM-75A Remote control microphone	77.99
HM-131 Spkr/mic/earph jack/revolving clip	42.99
HM-189GPS Spkr/mic w/GPS	199.99
HS-85 Headset w/VOX	89.99
LC-163 Carrying case	40.99

Icom - continued

	AES Price
MB-86 Swivel belt clip	10.99
OPC-254L Right angle mini DC pwr cable	15.99
OPC-474 Cloning cable (radio to radio)	19.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
OPC-1529R Data communications cable	28.99
SP-13 Earphone	4.99
IC-91A 5w 2m/440 D-Star upgradeable HT	Call/Web
UT-121 Digital board for D-Star	219.99
IC-91AD 5w 2m/440 D-Star compatible HT D	Call/Web
RS-91 included with IC-91AD purchase until gone!	
AD-92SMA SMA- BNC adapter	18.99
BC-139 Desk rapid charger	99.99
BP-216 Battery case for 2 AA	39.99
BP-217 7.4v 1300mah lith ion battery	99.99
CP-19R Cig lighter cable w/filter	48.99
HM-75A Remote control microphone	77.99
HM-128 Earphone+microphone	28.99
HM-131 Spkr/mic/earph jack/revolving clip	42.99
HS-85 Headset w/VOX	89.99
LC-163 Carrying case	40.99
OPC-474 Cloning cable (radio to radio)	19.99
OPC-1529R Data communications cable	28.99
RS-91 Rem control software/RS-232 cable	61.99
SP-13 Earphone	4.99
IC-92AD 5w 2m/440 D-Star ready HT	Call/Web
AD-92SMA SMA- BNC adapter	18.99
BC-177 Desk rapid charger	84.99
BP-256 7.4v 1620mah lith ion battery	99.99
BP-257 Battery case for 2 AA	40.99
CP-19R Cig lighter cable w/filter	48.99
HM-75A* Remote control microphone	77.99
HM-131* Spkr/mic/earph jack/revolving clip	42.99
HM-174 Waterproof spkr/mic	119.99
HM-175GPS Waterproof spkr/mic w/GPS	199.99
HS-85* Headset w/VOX	89.99
LC-168 Carryiing case	29.99
OPC-254L Right angle mini DC pwr cable	15.99
OPC-474 Cloning cable (radio to radio)	19.99
OPC-1797 Plug adapt cable; 2pin spkr/mic	49.99
RS-92 Rem control software/RS-232 cable	99.99
SP-13* Earphone	4.99
*These accessories require OPC-1797 with IC-92AD	

D-STAR REPEATERS

ID-RP2C Repeater controller	Call/Web
ID-RP2D 1.2GHz data repeater special order	Call/Web
ID-RP2L-06* 10GHz backbone (1 of 2) special order	Call/Web
ID-RP2L-07* 10GHz backbone (2 of 2) special order	Call/Web
*Both 06 & 07 are required to complete a link	
ID-RP2V 1.2GHz voice repeater special order	Call/Web
ID-RP2000V 2m voice repeater	Call/Web
ID-RP4000V 440MHz voice repeater	Call/Web
RS-RP2G2 G2 D-Star gateway software	299.99
IC-V8 Sport 5.5w 2m FM HT/alkaline case	Call/Web
BC-119-N01 Desk charger (adapter required)	68.99
AD-94-11 Adapter cup for BC-119-N01	11.99
AD-101 Adapt cup; BP-211N/BC-119-N01	19.99
BC-144N/BC144N51 Rapid desk charger	65.99
BP-208N Battery case	19.99
BP-209N 7.2v 1100mah 5.5w battery	42.99
BP-210N 7.2v 1650mah 5.5w battery	49.99
BP-222N 7.2v 600mah 5.5w battery	30.99
CP-17L Right angle cig cable for charger	25.99
CS-V8 Cloning software for IC-V8	39.99
OPC-474 Cloning cable (V8 to V8)	19.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
HM-46L Slim-line spkr/mic, rt angle plug	45.99
HM-54 Hvy duty spkr/mic	75.99
HM-75A Remote control microphone	77.99
HM-128L Rt angle plug earphone+mic	27.99
HM-158L Rt angle spkr/mic/earph jack/clip	45.99
HS-51 Headset w/VOX	99.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99

Icom - continued

	AES Price
VS-1L Right angle VOX-PTT unit for HS-94	42.99
LCF3G Swivel Leather case with swivel	39.99
MB-74N Spring loaded belt clip; orig batts Δ	9.99
MB-86 Swivel belt clip; N-series batteries	10.99
MB-103 Spring loaded belt clip; N-series batts	12.99
OPC-515L Right angle DC cord for charger Δ	14.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	37.99
IC-V82 7w 2m FM HT/battery/charger	Call/Web
IC-U82 5w 440 FM HT/battery/charger	Call/Web
BC-119-N01 Desk charger (adapter required)	68.99
AD-94-11 Adapter cup for BC-119-N01	11.99
AD-101 Adapt cup; BP-211N/BC-119-N01	19.99
BC-144N/BC144N51 Rapid desk charger	65.99
BP-208N Battery case	19.99
BP-209N 7.2v 1100mah 5.5w battery	42.99
BP-210N 7.2v 1650mah 5.5w battery	49.99
BP-222N 7.2v 600mah 5.5w battery	30.99
CS-V82 Cloning software for IC-V82/U82	44.99
OPC-474 Cloning cable (HT to HT)	19.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable	66.99
HM-46 Slim-line speaker/mic	50.99
HM-54 Heavy duty spkr/mic	75.99
HM-75A Remote control microphone	77.99
HM-128L Rt angle plug earphone+mic	27.99
HM-158L Rt angle spkr/mic/earph jack/clip	45.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
MB-86 Swivel belt clip	10.99
MB-103 Spring loaded belt clip; N-series batts	12.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	37.99
UT-118 Digital board	199.99
IC-V85 7w 2m FM HT/lith ion/charger	Call/Web
BP-226 Battery case for 5 AA	41.99
BP-227 7.2v 1700mah lith ion battery	88.99
CP-19R Cig lighter cable w/filter	48.99
CS-V85 Cloning software for IC-V85	44.99
OPC-474 Cloning cable (HT to HT)	19.99
OPC-478U/UC PC USB cable	66.99
HM-75A Remote control microphone	77.99
HM-128L Rt angle plug earphone+mic	27.99
HM-158L Rt angle spkr/mic/earph jack/clip	45.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
LC-167 Carrying case	42.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	37.99
IC-T7H Sport 2w 2m/440 FM HT/alkaline case	Call/Web
BC-110A/BC-74 Extra wall charger Δ	25.99
BP-170 Battery case	39.99
BP-180 7.2v 600mah battery	84.99
CP-12L Right angle cig cable w/filter	40.99
CSW-HH4 Windows prog soft/cbl; T7H/W32A D	55.99
OPC-474 Cloning cable	19.99
OPC-478 PC RS-232C cable	47.99
FA-1443B Extra 2m/440 dual band duck Δ	32.99
HM-46 Slim-line speaker/mic	50.99
HM-54 Heavy duty spkr/mic	75.99
HM-75A Remote control microphone	77.99
HM-128 Earphone+microphone	28.99
HM-131 Spkr/mic/earph jack/revolving clip	42.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	39.99
LC-137 Vinyl case; T7H w/BP173/180 D	29.99
NCP-1 Nylon chest pack Δ	29.99
OPC-254L Right angle mini DC pwr cable	15.99
SP-13 Earphone	4.99
AD-81 Batt adapter for rapid cgr; IC-T2H Δ	2.99
BC-119-N11 Nicad/NiMH desk cgr (use adapt) Δ	69.99

Icom - continued

	AES Price
BC-119-N21 Nicad/NiMH desk cgr (use adapt);T81A Δ	69.99
BC-133 Drop-in trickle charger; IC-T2H Δ	6.99
BC-122A AC adapter for BC-133 Δ	4.99
BP-194 AA alkaline battery case; IC-T2H D	20.99
BP-200L 9.6v 760mah NiMH battery; T81A Δ	79.99
BP-243 3.7v 1800mah lith ion batt; IC-P7A D	49.99
CP-21LR Cig cable w/filter; IC-P7A D	49.99
CS-P7 Windows cloning software; IC-P7A D	29.99
LC-128 Vinyl case; IC-W32A Δ	19.99
LC-145 Carrying case for IC-T2H D	6.99
LC-161 Carrying case; IC-P7A D	29.99
OPC-782 Plug adapter cable; IC-P7A D	18.99
IC-T90A 5w 6m/2m/440 FM HT/lith ion	Call/Web
AD-92SMA SMA- BNC adapter	18.99
BC-139 Desk rapid charger	99.99
BP-216 Battery case for 2 AA	39.99
BP-217 7.4v 1300mah lith ion battery	99.99
CP-19R Cig lighter cable w/filter	48.99
CS-T90A Windows cloning software; IC-T90A	39.99
OPC-474 Cloning cable (radio to radio)	19.99
OPC-478 PC RS-232C cable	47.99
OPC-478U/UC PC USB cable (XP only)	66.99
HM-46 Slim-line speaker/mic	50.99
HM-75A Remote control microphone	77.99
HM-128 Earphone+microphone	28.99
HM-131 Spkr/mic/earph jack/revolving clip	42.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	39.99
LC-152A Carrying case	26.99
MB-83 Swivel belt clip	10.99
SP-13 Earphone	4.99

ACCESSORIES

AG-25 2m mast mounted GaSFET preamp	$179.99
AG-35 430 MHz mast mounted preamp	189.99
AH-7000 25-1300 MHz discone ant/50'coax	189.99
AH-8000 100-3300MHz discone ant/49'cbl/N	249.99
CT-17 CI-V level converter	144.99
PS-125 25A switching power supply	249.99
PS-126 25A 4-pin switching power supply	329.99
SM-20 Electret desk microphone	219.99
SM-50 Dynamic desk microphone	279.99
SP-5 Mobile speaker	59.99
SP-10 Slim-line external speaker	76.99
SP-20 Speaker w/audio filters	264.99
SP-23 Speaker w/audio filters	199.99

CONSUMER ELECTRONICS

A-24 5w air handheld w/NiMH battery	$325.99
IC-M72 Waterproof 6w VHF marine handheld	199.99

IDIOM PRESS (IDI)

K-5 Logikey CW keyer	$149.99
HK-3 Hook-up kit	10.99

Dave INGRAM (ING)

Keys II Book	$ 16.99
QRP Romps Book	18.99
World of Keys Book	18.99

INTERNET LABS (INT)

DV-Dongle Computer dongle; internet D-Star	$199.99

ISOTRON (ISO)

160C 160m 9.5' x 16" x 15" 100 KHz bandwidth ant	$173.99
80 80m 32" x 16" x 15" 110 KHz bandwidth ant	109.99
40 40m 22" x 16" x 15" 250 KHz bandwidth ant	88.99
20 20m 21" x 8" x 4" 350 KHz bandwidth ant	78.99
15 15m 21" x 1.5" x 4" 450 KHz bandwidth ant	78.99
10 10m 16" x 1.5" x 4" 1 MHz bandwidth ant	78.99
6 6m 16.5" x 2" x 4" 1.25 MHz bandwidth ant	78.99
80/40 Combo 80/40m 32" x 16" x 30" ant	188.99
40/20 Combo 40/20m combo antenna	167.99
20/15/10 Combo 20/15/20m combo ant	198.99

AES Price

JSC (JSC)

1318	18ga solid 450 ohm ladder line .per ft.	.29
1318	.....100 ft. cut	24.99
1318	.....1000 ft. Roll	199.99
1313	14ga stranded 450 ohm ladder line per ft.	.64
1313	.....100 ft. cut	59.99
1313	.....1000 ft. Roll	399.99
3030	RG-8U coax cable .....per ft.	.79
3030	.....100 ft. Roll	74.99
3030	.....500 ft. Roll	359.99
3060	RG-8X coax cable .....per ft.	.44
3060	.....100 ft. cut	39.99
3060	.....1000 ft. Roll	319.99
3110	RG-58AU coax cable .....per ft.	.29
3110	.....100 ft. cut	27.99
3110	.....1000 ft. Roll	269.99
3500	Equiv 9913 coax cable .....100 ft. Roll	89.99
3500	.....250 ft. Roll	199.99
3500	.....500 ft. Roll	369.99
3780	RG-213 coax cable .....per ft.	.89
3780	.....100 ft. Roll	84.99
3780	.....500 ft. Roll	399.99
5971	8-wire rotor cable; 2-18, 6-22 ....per ft.	.49
5971	.....100 ft. cut	44.99
5971	.....1000 ft. Roll	419.99
5972	8-wire rotor cable; 2-16; 6-18 ....per ft.	.99
5972	.....100 ft. cut	94.99
5972	.....500 ft. Roll	429.99

Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

K-40 (K40)

K-30	MagnaMount mobile CB antenna	$ 29.99
K-40	Black base loaded roof/trunk mt CB ant	69.99
M-40	Black MagnaMount for K-40	24.99
W-40	Black weather cap for K-40	2.99
SF-400	4' black Superflex fiberglass CB whip	23.99
SF-400W	4' white Superflex fiberglass CB whip	23.99

K-COM (KCO)

RF-1/2-line	2-line modular 3-30 MHz RFI filt D	$ 19.99
RF-1/coiled	Coiled cord modular 3-30MHz filt D	19.99
RF-2	Hard-wired telephone 3-30 MHz RFI filt D	10.99
RF-2/Low	Hard-wired phone .5-3 MHz RFI filt D	6.99

KNK Marketing (KNK)

RLG	2007 So CA rptr listings/SW USA rptr map	$ 5.00

KANTRONICS (KAN)

KPC-3 Plus/128K	Small packet TNC/128K RAM	$229.99
KPC-**9612 Plus/128K**	9600 controller/128K ...	399.99
(CSS) **ROC Digital Desktop; Kan**	Soft; Kan TNCs	99.99
12VDC Adaptor	300ma adaptor	19.99
KAM XL	All mode TNC w/DSP modems	446.99
(CSS) **ROC Digital Desktop; Kan**	Soft; Kan TNCs	99.99
12VDC Adaptor	300ma adaptor	19.99

KENT (KNT)

SK-1	Straight key	$129.99
SP-1	Single paddle key	139.99
TP-1	Dual paddle iambic key	149.99
VK-1	Vail Correspondent straight key .....Δ	149.99

KENWOOD (KEN)

TS-B2000	PC ctl HF/6m/2m/430 Xcvr/tuner	Call/Web
TS-2000	HF/6m/2m/430 Xcvr/ant tuner	Call/Web
	UT-20 1.2GHz module Kenwood install only	
TS-2000X	HF/6m/2m/430/1.2 Xcvr/tuner	Call/Web
KPS-15	23A switching ps w/fan, 25A surge	139.99
ARCP-2000	PC control soft; included w/TSB	84.99
DRU-3A	Digital recording unit	139.99

Kenwood - continued

AES Price

HS-5	Deluxe headphones	87.99
HS-6	Lightweight headphones	65.99
MB-430	Mobile mounting bracket	55.99
MC-43S	Extra 8-pin hand mic w/up-down .	65.99
MC-57DM	Back-lit TTP hand mic	84.99
MC-60A	8-pin amp desk mic w/up-down ..	149.99
MC-90	2-head DSP desk microphone	249.99
PG-2Y	13' DC cable	44.99
PG-2Z	6.5' heavy duty DC cable	42.99
RC-2000	Remote faceplate mobile kit	379.99
SP-23	External speaker	89.99
VS-3	Voice synthesizer	39.99
TS-480HX	200w HF/100w 6m Xcvr	Call/Web
TS-480SAT	100w HF/6m Xcvr w/auto tuner	Call/Web
KPS-15	23A sw ps/fan, 25A surge (use 2 for 200w)	139.99
HS-5	Deluxe headphones	87.99
HS-6	Lightweight headphones	65.99
MB-480	Carrying bracket w/handle	51.99
MC-43S	Extra 8-pin hand mic w/up-down .	65.99
MC-47	Multi-function 8-pin hand mic	65.99
MC-60A	8-pin amp desk mic w/up-down ..	149.99
MC-90	2-head DSP desk microphone	249.99
MJ-88	Modular to 8-pin mic adapter	35.99
PG-4Z	13' panel extension kit	59.99
PG-20	22' DC cable	49.99
SO-3	TCXO unit	119.99
SP-23	External speaker	89.99
SP-50B	High quality external mobile spkr ..	59.99
VGS-1	Voice guide & storage unit	69.99
YF-107C	500 Hz CW filter	129.99
YF-107CN	270 Hz CW filter	129.99
YF-107SN	1.8 KHz SSB filter	129.99
7-pin DIN	plug	4.99
8-pin DIN	plug	6.99
13-pin DIN	plug	9.99
HS-5	Deluxe headphones	87.99
HS-6	Lightweight headphones	65.99
KES-5	Heavy duty 40w unterminated speaker	49.99
KPS-15	23A switching ps w/fan, 25A surge .	139.99
LF-30A	1kw PEP low pass filter	69.99
MC-43S	8-pin hand mic w/up-down switch ..	65.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MJ-88	Modular to 8-pin mic adapter	35.99
SO-2	TCXO unit; TS-570D/S .....Δ	179.99
SP-50B	High quality external mobile speaker	59.99
SP-950	Ext spkr/audio filters; TS-950SDX .....Δ	159.99
YK-88C-1	500 Hz CW filter; TS-570D/S .....Δ	119.99
YK-88CN-1	270 Hz CW filter; TS-570D/S ....Δ	119.99
YK-88SN-1	1.8 KHz SSB filter; TS-570D/S ..Δ	129.99
TM-V71A	50w 2m/50w 440 FM Xcvr	Call/Web
DFK-3D	Detachable front panel kit	49.99
MJ-88	Modular to 8-pin mic adapter	35.99
PG-2N	Extra DC cable	19.99
PG-5F	Extension cable kit	77.99
PG-5G	Programming interface kit	39.99
PG-5H	PC interface kit	64.99
RC-D710	TNC/APRS control head	299.99
PG-5J	Interface kit; external TNC w/RC-D710	79.99
SP-50B	High quality external mobile spkr ..	59.99
VGS-1	Voice guide & storage unit	69.99
TM-D710A	50w 2m/50w 440 FM Xcvr/TNC ...	Call/Web
MJ-88	Modular to 8-pin mic adapter	35.99
PG-2N	Extra DC cable	19.99
PG-5F	Extension cable kit	77.99
PG-5G	Programming interface kit	39.99
PG-5H	PC interface kit	64.99
SP-50B	High quality external mobile spkr ..	59.99
VGS-1	Voice guide & storage unit	69.99
TM-271A	60w 2m FM Xcvr w/WX alert	Call/Web
MJ-88	Modular to 8-pin mic adapter	35.99
PG-2N	Extra DC cable	19.99
PG-5D	PC interface cable	79.99
SP-50B	High quality external mobile spkr ..	59.99
BT-11	4-AA battery holder; TH-D7A(G) .....Δ	17.99

Kenwood - continued

AES Price

DFK-3C	9' sep disp cable kit; TMG707A .....Δ	44.99
DFK-4	13' remote cable kit; 642/742AD .....Δ	49.99
J29-0631-13	Belt clip for batt; D7A/G71A ...Δ	4.99
MB-201	Extra mobile bracket; TMD-700A ..Δ	19.99
MC-57DM	Back-lit 8-pin TTP microphone	84.99
MC-58DM	Back-lit modular TTP microphone .	84.99
PB-34	9.6v 600mah 5w battery; TH-22 .....Δ	69.99
PB-39	9.6v 600mah 5w batt; TH-D7A(G) ...Δ	57.99
PG-3B	15A DC line noise filter	33.99
PG-4S	PC interface cable; TM-G707A .....Δ	32.99
PG-4W	PC software/cable; TH-D7A(G) .....Δ	44.99
PG-4X	13' extension cable kit; TMD-700A ..Δ	69.99
PG-5A	Packet data cbl; TM-G707A/TM-V7A Δ	14.99
RC-D710	TNC/APRS head	299.99
PG-5J	Interface kit; external TNC w/RC-D710	79.99
SC-45	Soft case for TH-G71A/PB-38/39 .....Δ	1.99
SC-47B	Black soft case for TH-D7A(G) .....Δ	14.99
SC-47OR	Orange soft case for TH-D7A(G) ...Δ	14.99
TH-K2AT	5w 2m FM HT/battery/charger	Call/Web
BT-14	6-AA battery holder	22.99
HMC-3	VOX/boom mic headset	52.99
KHS-21	Boom mic headset	36.99
KHS-26	Lapel clip mic/ear piece	25.99
KSC-24	Rapid charger	49.99
PB-43N	7.2v 1100mah NiMH battery	49.99
PG-2W	DC cable w/fuse	19.99
PG-3J	Cig lighter cord w/filter	39.99
PG-4Y	9-pin PC programming cable	35.99
SC-54	Soft case	17.99
SMC-32	Mini water resist rt angle spkr/mic .	58.99
SMC-33	Speaker/mic w/remote control	73.99
SMC-34	Spkr/mic w/vol cont/function keys	35.99
WR-2	Water resistant bag; TH-22/42AT	33.99
TH-F6A	5w 2m/220/440 FM HT/lith ion	Call/Web
BT-13	AA battery case	28.99
HMC-3	VOX/boom mic headset	52.99
KHS-21	Boom mic headset	36.99
KHS-26	Lapel clip mic/ear piece	25.99
PB-42L	Extra 7.4v 1550mah lithium ion batt	88.99
PG-2W	DC cable w/fuse	19.99
PG-3J	Cig lighter cord w/filter	39.99
PG-4Y	9-pin PC programming cable	35.99
SC-51	Soft case w/swivel belt clip	17.99
SMC-32	Mini water resist rt angle spkr/mic .	58.99
SMC-33	Speaker/mic w/remote control	73.99
SMC-34	Spkr/mic w/vol cont/function keys	35.99
WR-2	Water resistant bag	33.99

KLEINHUIS (KLE)

1309	Isolated grounding bar	$ 14.99

KOSS (KOS)

KTX/8	Collapsible stereophone w/vol control ...	$ 14.99
QZ/5	Passive noise reduction stereophone .D	49.99
QZ/50	Active noise reduction stereophone	49.99
QZ/99	Noise reduction stereoph w/mono sw .	59.99
QZ/2000	Active noise reduction stereophone Δ	69.99
Race Tracker	Black Passive noise reduction stereophone	49.99
SparkPlug	Stereo ear buds	14.99
Y-88	Dual stereophone Y-adapter	4.99

LDG (LDG)

AT-100Pro	160-6m 1-125w/100w 6m auto tuner	$199.99
AT-200Pro	160-6m 5-250w/100w 6m auto tuner	229.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-200PC	160-6m 5-250w/100w 6m PC ctl tuner D	149.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-897	Bolt-on auto tuner for Yaesu FT-897 .	199.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-1000Pro	1000w PEP HF/250w 6m auto tuner	549.99
RBA-1:1	Remote 1:1 balun; short random .	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99

LDG - continued

	AES Price
IT-100 Auto tuner; IC7000/706/703/718/746/756	179.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
KT-100 160-6m 125w/100w 6m auto tuner; Kenwood	199.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
YT-100 Desk-top auto tuner; FT-857/897/100	199.99
RBA-1:1 Remote 1:1 balun	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
Z-11Pro 160-6m .1-125w/100w 6m auto tuner	179.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
Z-100Plus 160-6m .1-125w/100w 6m auto tuner	159.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
Z-817 160-6m 20w auto tuner for Yaesu FT-817	129.99
RBA-1:1 Remote 1:1 balun; short random	30.99
RBA-4:1 Remote 4:1 balun; long/random/end fed	30.99
ALK-2 2-port audio/linear/key switch	49.99
DM-7800 Dual 4.5" meters for IC-7800 D	169.99
DTS-4 4-pos HF/6m 1500/250w ant switch	79.99
DTS-4R Remote control for DTS-4	39.99
DTS-6 6-pos HF/6m 1500/250w ant switch	99.99
FT-METER Multi-function meter for FT-857/897	49.99
FTL-METER Large 4.5" meter for FT-857/897	79.99
M-7700 4.5" multi-function meter; IC-7700	79.99
MULTI-DC 12vdc distribution box D	49.99
RCA-14 Transceiver cable breakout box	59.99
SLS-2 Microphone switch w/RJ-45 connectors	59.99

LA CROSSE (LAC)

EA-3010 Handheld wind indicator	$ 49.99
IR-101 Infra-red thermometer D	19.99
WA-1240U 4-day talking internet forecaster	99.99
WD-3209U 4-day internet forecaster/alerts	99.99
WS-450B Color forecast station	69.99
WS-1612CH-IT Professional wireless WX stn	139.99
WS-2010-13 PC interface/soft; WS-2010 D	9.99
WS-7014CH Wireless forecast station	49.99
WS-7394U-CH-IT Wireless forecast station	69.99
WS-8035U-SAL-IT Dlx wireless forecast stn	89.99
WS-8117U-IT-Oak Atomic clock/in/out temp/moon	46.99
WS-9004U-IT Wireless rain gauge	29.99
WS-9016TWC Sun/moon wireless weather stn D	39.99
WS-9023U-IT Wireless temperature/humidity	29.99
WS-9080U-IT-CBP Wireless temperature station	29.99
WS-9121U-IT-CBP Wireless thermometer	19.99
WT-3102S 10" 12-hour analog atomic clock	19.99
WT-5120 Projection alarm/out temp/in humidity	39.99
WT-8005U-B Atomic 12/24-hr wall clock/in temp	29.99

LAKEVIEW (LAK)

9175 75m 7' Hamstick antenna	$ 39.99
9160 60m 7' Hamstick antenna	39.99
9140 40m 7' Hamstick antenna	39.99
9130 30m 7' Hamstick antenna	39.99
9120 20m 7' Hamstick antenna	39.99
9117 17m 7' Hamstick antenna	39.99
9115 15m 7' Hamstick antenna	39.99
9112 12m 7' Hamstick antenna	39.99
9110 10m 7' Hamstick antenna	39.99
9106 6m 4.5' Hamstick antenna	39.99
901 Dipole mount for 2 Hamsticks	24.99
IM-1 Inducti-match for 75-12m mobile ant	29.99
TM-1 License plate mount, ⅜-24	54.99

LARSEN/PULSE (LAR)

27-31 MHz ANTENNA

NMO-27B 10m black ant only (no mount)	$ 49.99
NMO-27C 10m ant only (no mount)	45.99

47-54 MHz ANTENNA

NMO-50B 6m black ant only (no mount)	$ 49.99
NMO-50C 6m ant only (no mount)	45.99

Larsen - continued

144-174 MHz ANTENNAS

NMO-150B 2m black ant only (no mt), 3 db	$ 29.99
NMO-150C 2m ant only (no mount), 3 db	29.99
OM-150CK 2m no ground plane antenna	69.99

440-460 MHz ANTENNA

NMO-440C 440 ant only (no mount), 3.4db	$ 34.99

890-960 MHz ANTENNA

NMO-900B 900 black ant only (no mt), 3.4db	$ 42.99
NMO-2/70B 2m/440 blk ant only (no mt), 1.6/3.5db	79.99
NMO-2/70-SH 2m/440 ant (no mt), 0/1.8db	49.99
NMOQ-Spec 136-960 MHz ¼ wave ant (no mt)	17.99
NMOQ-Spec-B 136-960 black ¼ wv ant (no mt)	24.99
NMOQ-Spec-K 136-960MHz ¼ wv ¾" hole ant	34.99
GPS-NM002 GPS NMO mount ant (no mt)	69.99
NMO-150450800 3-band scanner ant (no mt)	32.99

ON GLASS ANTENNAS

KG-144-UD-PL 2m on glass antenna	$ 89.99
KG-2/70-CX-PL 2m/440 on glass antenna	129.99
KG-Reinstall Reinstall kit for KG-ants	10.99

KULDUCKIES - For Hand-helds

KD4-2/70 2m/440 9" BNC Kulduckie	$ 42.99
KD14-445 440 6.5" BNC Kulduckie Δ	9.99

ACCESSORIES

BSA-K/BSA-Kit Base kit; NMO/UHF mount	$ 56.99
HP-34 3/4" hole plugs (5)	3.99
NMO-CAP-B Black rain cap for NMO mount	6.99
NMO-K ¾" hole mt w/coax for NMO ant	24.99
NMO-KHF-UD ¾" NMO hole mt/coax (less plug)	15.99
NMO-MMR Round mag mt, coax for NMO ant	34.99
NMO-TLP Low profile tnk lid mt, coax; NMO ant	34.99
PO-K Roof mt, coax for SO-239 ant	46.99
PO-MM Magnet mt, coax for SO-239 ant	46.99
RG-SS Extra super seal NMO gaskets (3)	6.99
SPRING Shock spring	14.99
TMB-34 Trunk mtg bkt for NMO antenna	6.99
TMB-34B Black trunk mtg bkt for NMO ant	9.99
W-2/70B 2m/440 black replacement mobile whip	32.99
W-KG2/70 2m/440 replacment on glass whip	32.99
W-490 49" replacement moible whip	10.99
W-490B Black 49" replacement mobile whip	14.99

LIDO (LID)

LM-100 Vent mount for remote heads	$ 14.99
LM-H Side grip holder for LM-100	14.99
LM-200EXP Visor mount w/express mount	19.99
LM-300 Seat bolt mount	24.99
LM-400EXP WindowMate mt w/express mount	19.99
LM-500H Low vibration windshield/dash mt	29.99
LM-600 LoBoy low profile universal mt/swivel	14.99
LM-700 Ultimount univ mt; radio control heads	24.99
LM-801EXP Cup holder mt w/express mount	24.99
LM-900BG Bug Mount; dash/console/windshield	19.99
LM-1000EXP Motorcycle/bike mt/express mount	19.99
LM-1100 HD alum motorcycle mt for rem head	39.99
LM-1200 Vent mount for microphone hang up	7.99
LM-25 Dash bean bag only	19.99
LM-2500 Dash bean bag mount	29.99
LM-2500H Dash bean bag mt w/side grip holder	39.99
Adhesive Kit 1 For LM-400 series/LM-500 series	4.99
Adhesive Kit 2 For LoBoy and Bug Mounts	5.99

LIGHTWAVE (LIG)

LW-HT 4 LED/3 AA-cell illuminator head torch D	$ 9.99
LW-PB 1 LED/2 lith-cell pocket flashlight D	1.99
LW-3000 7 LED/3 C-cell flashlight D	14.99

LOGSAT (LOG)

Logsat Professional Satellite tracking CDROM	$ 69.99

M² (MSQ)

6M-3SS 6m 6.06db 3el 5' 9" boom beam	$149.99
6M-3 6m 50-50.6 or 51-54 6.4db 3el 6'9" bm beam	179.99
6M-5X 6m 50-50.5 or 51-54 9.4db 5el 18' bm beam	307.99

M² - continued

	AES Price
6M-7JHV 6m 50-50.4 10.9db 7el 30'8"bm beam	380.99
6M-HO-LOOP 6m 50-50.3 4.4db horiz loop ant	140.99
6" x 1/2" 3/8-24 mobile mast for loop	13.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	21.99
36" x 1/2" 3/8-24 mobile mast for loop	34.99
50" x 1/2" 3/8-24 mobile mast for loop	38.99
Mast/Top Bkt Top bracket for mast; HO stack	23.99
2M-3SS 2m 6.16db 3el 3' boom beam	69.99
2M-4 2m 7.5db 4el 4' boom beam	139.99
2M-7 2m 10.3db 7el 8'10" boom beam	156.99
2M-9SSB/FM 2m SSB or FM 12db 9el 14' 6" boom	182.99
2M-12 2m 12.8db 12el 19'6" boom beam	239.99
2M-5WL 2m 14.8db 17el 33' boom beam	269.99
2M-CP14 2m 10.3db 7h/7v 10'6"bm circ beam	229.99
2M-CP22 2m 12.5db 11h/11v 18'6"boom circ Δ	249.99
PS-2M 2m polarity switch; circ pol beam	199.99
2M-HO-LOOP 2m 144-144.5 4.86db horiz loop	59.99
6" x 1/2" 3/8-24 mobile mast for loop	13.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	21.99
36" x 1/2" 3/8-24 mobile mast for loop	34.99
50" x 1/2" 3/8-24 mobile mast for loop	38.99
Big-Foot 4x-mag mt; 2M-HO-LOOP stack/etc	129.99
MAG-KIT Magnet mt kit; single 2m-HO-LOOP	30.99
Mast/Top Bkt Top bracket for mast; HO stack	23.99
STACK-KIT Stack kit for 2 2m-HO-LOOP's	87.99
EB-144/RK-2M 2m Eggbeater w/reflector kit	269.99
222-5SS 222-225 8.16db 5el 3' boom beam Δ	59.99
222-7EZ 220 9.8db 7el 5' 8" boom beam Δ	89.99
222-10EZ 220 12db 10el 9' 9" boom beam	156.99
222-7WL 220 16.4db 23el 32'5" boom beam Δ	199.99
440-6SS 420-450 8.86db 6el 3' boom beam	78.99
420-50-11 432 11.3db 11el 5' bm rear mt beam	139.99
440-18 432 14.5db 18el 11'4" boom beam	179.99
436-CP30 432 14.5db 15h/15v 9'9"bm circ beam	299.99
436-CP42UG 432 16.8db 21h/21v 18'10"bm circ	349.99
PS-70CM 432 polarity switch; circ pol beam	199.99
432-9WL 432 17.3db 28el 21' boom beam	249.99
432-HO-LOOP 430-436 5db horiz loop ant	59.99
6" x 1/2" 3/8-24 mobile mast for loop	13.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	21.99
36" x 1/2" 3/8-24 mobile mast for loop	34.99
50" x 1/2" 3/8-24 mobile mast for loop	38.99
Big-Foot 4x-mag mt; 432-HO-LOOP stack/etc	129.99
MAG-KIT Mag mt kit; single 432-HO-LOOP	30.99
STACK-KIT-70CM Stack kit; 2 432-HO-LOOP's	87.99
EB-432/RK-70CM 432 Eggbeater w/reflector kit	239.99
23CM-22EZA 1.2GHz 16db 22el 5'2" bm beam	179.99
2M-2-Port-PD 2m 2-port type N power divider	84.99
2M-4-Port-PD 2m 4-port type N pwr divider Δ	89.99
70CM-2-Port-PD 432 2-port N power divider	84.99
23CM-2-Port-PD 1.2GHz 2-port N power divider Δ	49.99
OR-2800PDC 35 sq ft azimuth rotor/control/8-wire	1399.99

MFJ (MFJ)

ANTENNA TUNERS

9982 2.5kw continuous w/roller inductor	$649.99
989D Dlx 1.5kw PEP w/roller inductor	349.99
986 3kw PEP w/roller inductor	319.99
962D 1.5kw PEP/meter/switch/balun/roller ind	279.99
969 HF & 6m 300w roller inductor tuner	199.99
949E 300w/PEP meter/dummy/switch/balun	169.99
948 300w/meter/switch/balun	149.99
941E 300w tuner w/meter, switch, balun	129.99
945E 300w tuner w/meter plus 6m	119.99
20 Mobile bracket for 945E	6.99
901B Versa Tuner 200w ant tuner	99.99
910 80-10m mobile antenna matcher	29.99
16010 200w random wire tuner	69.99
974B 3.5-54MHz balanced line ant tuner	179.99
974HB 1.8-54MHz balanced line ant tuner	199.99
976 1.5kw 1.8-30MHz balanced line ant tuner	469.99

MFJ - continued

		AES Price
991B	150w automatic antenna tuner	209.99
993B	300w deluxe automatic antenna tuner	249.99
994B	600w automatic antenna tuner	339.99
1316	12vdc 1.2A adapter; auto tuners	21.99
5124A	Alinco interface cable; auto tuners Δ	2.99
5124I	Icom interface cable; auto tuners	19.99
5124K	Kenwood interface cable; auto tuners	59.99
5124Y	Yaesu interface cable; auto tuners	59.99
998	1.5kw automatic antenna tuner	649.99
1316	12vdc 1.2A adapter; auto tuners	21.99
5114I	Icom interface cable	19.99
5114K	Kenwood interface cable	19.99
5114Y	Yaesu interface cable; not for FT-950	19.99
902	80-10m 150w travel tuner	99.99
903	6m antenna tuner	69.99
904	80-10m 150w travel tuner w/meter	129.99
906	6m antenna tuner w/wattmeter	99.99
914	Auto tuner extender	79.99
921	2m/220 300w PEP tuner/SWR/wattmeter	89.99
924	440 MHz 300w PEP tuner/SWR/wattmeter	89.99
934	300w tuner w/artificial ground	199.99

MEMORY KEYERS

451	Dedicated CW keyboard w/memory	$119.99
452	CW keyboard/keyer w/disp/keyboard	149.99
452X	CW keyboard/keyer w/disp, no keyboard	119.99
498	Dlx CW keyboard/keyer w/disp/keyboard D	69.99
490	492 keyer/Bencher paddle combo	199.99
490X	492 keyer for use w/Bencher or 564	119.99
564	Deluxe iambic chrome paddle for 490X	69.99
564B	Deluxe iambic black paddle for 490X	69.99
492	192 char menu driven memory keyer	109.99
495	Millennium memory keyer	169.99

ELECTRONIC KEYERS

401D	Econo keyer	$ 69.99
407D	Deluxe electronic keyer	79.99

KEYER/PADDLES

422D	Keyer/Bencher paddle combination	$179.99
422DX	Keyer only	89.99
441	SlimLine econo keyer	74.99
442	SlimLine keyer/Bencher paddle combo Δ	99.99
447	SlimLine deluxe keyer	89.99
564	Deluxe iambic chrome paddle	69.99
564B	Deluxe iambic black paddle	69.99
5166	Paddle to keyer cable	11.99

COMPUTER INTERFACES

1224	Computer Interface D	$ 39.99
1285	Software for IBM; 1224 D	4.99
781	DSP filter for any TNC or controller Δ	4.99
1214PC	Multimode interface for IBM Δ	79.99
1272BYH	TNC/mic switch; KAM HF Δ	14.99
1272BYV	TNC/mic switch; KAM VHF Δ	19.99
1272M	TNC/mic RJ-45 switch; MFJ/PK-900 Δ	19.99
1272MYV	TNC/mic RJ-45 sw; KAM VHF; KPC3 Δ	29.99
1284W	MFJCOM for Windows Δ	6.99
1289W	Multicom for Windows with cable Δ	9.99

SSB/CW FILTERS

751B	Super tunable CW audio filter	$ 89.99
752C	Dual tunable SSB/CW filter	109.99
784B	Deluxe tuneable DSP filter	259.99
5184	Cable pack for 784B	9.99

PHONE PATCH

624D	8p phone patch w/audio VU meter D	$ 99.99
624E	8p/mod phone patch w/audio VU meter	149.99

DUMMY LOADS

250	2kw PEP dummy load w/oil	$ 69.99
250X	2kw PEP dummy load, less oil	49.99
21	1 gal industrial xfmr oil for wet dummy	29.99
260C	300w 0-650 MHz dry dummy load	39.99
260CN	300w 0-650 MHz type N dry dummy	49.99
264	1.5kw 0-650 MHz dry dummy load	74.99
264N	1.5kw 0-650 MHz type N dry dummy	84.99
267	1.5kw 1.8-60 dry dummy load/SWR/wattmeter	149.99

MFJ - continued

SWR/WATTMETERS

		AES Price
812B	144-220 MHz SWR/FS/wattmeter	$ 39.99
815C	160-10m cross-needle SWR/wattmeter	99.99
816	1.8-30 MHz toroidal SWR/wattmeter	39.99
817C	2m/220/440 cross needle meter	109.99
841	2m 5w in-line HT wattmeter/SWR	49.99
844	Compact 2m/440 SWR/wattmeter	79.99
860	1.8-60 MHz cross-needle meter	59.99
862	2m/220/440 cross-needle meter	69.99
864	1.8-60MHz/2m/440 cross needle meter	89.99
868	HF 6.5" diagonal PEP SWR/wattmeter	149.99
870	1.6-60MHz Grandmaster SWR/wattmeter	99.99
872	1.8-200MHz Grandmaster SWR/wattmeter	99.99
873	125-525MHz Grandmaster SWR/wattmeter	129.99
874	1.8-525MHz Grandmaster SWR/wattmeter	149.99

SHORTWAVE ACCESSORIES

306	Car radio SWL converter	$ 99.99
956	LW/MW/SW preselector/tuner	69.99
959C	SW receiver ant tuner w/preamp	109.99
1020C	.3-40 MHz indoor active receive ant	99.99
1022	300KHz-200MHz active rcv antenna	69.99
1024	.05-30 MHz outdoor active rcv ant	149.99
1040C	Deluxe receiver preselector	119.99
1045C	Receiver preselector	89.99

BOOKS

30	Golden Classics book	$ 14.95
32	Packet Made Easy book	12.95
33	Mobile Handbook	14.95
36	Shortwave Listeners Guide; Apts/Condos	12.95
37	Ham Communications Circuit Files book	12.95
38	Easy-up Antennas book	19.95
3036	The Packet Radio Operators book	14.95
3101	Fox Hunt Adventure book	9.95
3211	Technician license guide	12.95
3213	General license guide	12.95
3301	Troubleshooting Antenna & Feedlines book	14.95
3302	73 Dipole and Long-Wire Antennas	14.95
3303	73 Vertical, Beam, and Triangle Ants	14.95
3305	Antennas & Transmission Lines book	19.95
3400	Morse Code: Breaking the Barrier	19.95
3502	Solid State QRP Projects	12.95
3504	FET Principles, Experiments & Projects	16.95
3506	Ferromagnetic-Core Design book	19.95
3507	Practical RF Design Manual	19.95
3509	Ladder Crystal Filters	19.95

CLOCKS

105C	24-hour quartz wall clock	$ 24.99
107B	24-hour digital clock	12.99
108B	24/12-hour dual disp digital clock	21.99
112B	Deluxe world map clock	29.99
113	24/12-hr 1.8" LED clock/batt back-up	19.99
118	Giant 24/12 hour LCD clock	29.99
123	Eternity solar atomic clock D	29.99
123B	Eternity solar atomic clock	79.99
125	Calendar 24-hour analog wall clock	34.99

ANTENNAS

1402	2m/440 0/3db 16.5" 100w ant only	$ 34.99
1412	2m/440 3/5.5db 40" 200w ant only	49.99
1414	2m/440 3/8-24 58" antenna only	19.99
1422	2m/440 3.2/5.7db 41.5" 150w ant only	49.99
1432	2m/440 5/7.6db 62.5" 150w ant only	69.99
1436	6m/2m/440 2.15/4.5/7.2db 59" ant only	79.99
333BM	3.5" HiFlux NMO mag mt; not 1436	14.99
333BS	3.5" HiFlux SO-239 magt mt not 1436	14.99
335BM	5" HiFlux NMO mag mt; not 1436	21.99
335BS	5" HiFlux SO-239 mag mt; not 1436	21.99
340	Mirror/luggage pipe clamp mount	34.99
345S	Trunk/hatchback lip mt SO-239 mt	34.99
1516	2m 15' vertical base antenna	99.99
1621	40-10m 54" portable ant w/tuner	99.99
1622	40-2m apartment antenna	99.99
1624	40-6m mini bugcatcher antenna	89.99
1661	40-6m portable manual screwdriver ant	139.99

MFJ - continued

		AES Price
1664	80-6m portable manual screwdriver ant	169.99
1710	2m ⅜ wave telescopic BNC antenna	9.99
1712	2m/440 telescopic BNC antenna	14.99
1712S	2m/440 telescopic SMA antenna	14.99
1713	2m/440 SuperFlex Thin Duk HT ant	19.99
1713S	2m/440 SuperFlex SMA Thin Duk ant	19.99
1714	2m ½ wave telescopic BNC antenna	16.99
1715	2m/440 SuperFlex gain Thin Duk HT ant	24.99
1715S	2m/440 SuperFlex gain SMA Thin Duk	24.99
1716	2m/440 duck for HT	16.99
1716S	2m/440 SMA duck for HT	16.99
1717	2m/2.15db 440 duck for HT	21.99
1717PL	2m/440 foldover flexi-duck, PL-259	24.99
1717S	2m/2.15db 440 SMA duck for HT	21.99
1719	2m/440 BNC Midget Duck	19.99
1719S	2m/440 SMA Midget Duck	19.99
1720S	6m/2m/440 SMA Duck	29.99
1721	2m HT UltraLite mag mt antenna	15.99
1722	2m/440 HT UltraLite mag mt BNC ant	19.99
1724B	2m/440 magnet mt antenna	24.99
1728B	6m ¼ wv/2m ⅝ wv mag ant/PL259/BNC	34.99
1729	2m/440 magnet mt antenna	39.99
1730	2m pocket roll-up vertical antenna	29.99
1734	2m/440 2.6/6.3db glass mt antenna	44.99
1736	6m J-Pole travel antenna	29.99
1738	2m 2.6db glass mt antenna	34.99
94	Remount kit for 1734/1738	4.99
1740	2m ¼ wave ground plane ant	29.99
1750	2m ⅝ wave ground plane ant	34.99
1752	220 ⅝ wave ground plane ant	34.99
1754	2m/440 ground plane antenna	39.99
1762	6m 6db 3 el 6' boom beam	99.99
1763	2m 3el portable beam	54.99
1764	2 & 6m dual ⅝ super gain base ant	59.99
1768	2m/440 4/7 el beam antenna	99.99
1777	160-6m all band doublet	59.99
1778	G5RV 160-10m 102' ant (needs tuner)	44.99
1796	40/20/15/10/6/2m 10' vertical ant	219.99
1798	80/40/30/20/17/15/12/10/6/2m 20' vert	289.99
1800	2.4GHz wi-fi 16 element 15db beam	29.99
5606SR	6' N male - rp-SMA female cbl for 1800	24.99
1899T	80-6m telescopic antenna; FT-817	79.99
1910	33' telescoping fiberglass mast	79.99
1954	3/8-24 10' telescopic whip	29.99
1956	3/8-24 12' telescopic whip	34.99
2990	160-6m 43' vert ant; needs ant tuner	359.99

CABLES

5020	MFJ TNC - Yae FT50R/compat Δ	$ 2.99
5022YV	KAM VHF/KPC3 - Ali/Sta HT cable Δ	2.99
5024	MFJ TNC - Ico/Yae/Ali/RS HT cable Δ	6.99
5024B	PK/PacComm/compat - Ico/Yae/RS Δ	4.99
5024YV	KAM VHF/KPC3 - Ico/Yae/Ali/RS HT	17.99
5026	MFJ TNC - Kenwood HT cable Δ	4.99
5060YV	KAM VHF/KPC3 - Ke/Ya acc 6pin mni DIN	21.99
5063	MFJ TNC - Icom HF acc 8-pin DIN Δ	6.99
5064	MFJ TNC - Icom VHF acc 8-pin DIN Δ	2.99
5065	MFJ TNC - Ico IC-706 acc 13-pin DIN Δ	6.99
5065YH	KAM HF - Ico IC-706 acc 13-pin DIN	21.99
5065YV	KAM VHF - Ico IC706 acc 13-pin DIN Δ	19.99
5066	MFJ TNC - Kenwood HF acc 13-pin DIN Δ	4.99
5066YH	KAM HF - Ken HF acc 13-pin DIN Δ	4.99
5080	MFJ TNC - Yaesu 8-pin cable Δ	2.99
5080YH	KAM HF port - Yaesu 8-pin cable Δ	2.99
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable	17.99
5082	Open end - 8-pin mic cable	11.99
5084	MFJ TNC - Icom 8-pin cable Δ	4.99
5084MYV	KAM VHF/KPC3 - Icom 8-pin mod	17.99
5086	MFJ TNC - Kenwood/Alinco 8-pin cable Δ	4.99
5086M	MFJ TNC - Kenwood 8-pin modular Δ	2.99
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod	17.99
5086YV	KAM VHF/KPC3 - Ken/Ali 8-pin cable	17.99
5088M	MFJ TNC - Radio Shack 8-pin modular Δ	2.99
5208	Open end - Ico HF/VHF acc 8-pin DIN Δ	2.99
5213	Open end - Kenwood acc 13-pin DIN	11.99

MFJ - continued

	AES Price
5220R/5220 Open end - Yae FT50R/compat Δ	1.99
5222 Open end - Ali split HT cable Δ	1.99
5224 Open end - Ico/Yae/Ali/RS HT cable Δ	1.99
5268 Open end - modular phone plug cable	11.99
5412 IBM printer cable Δ	1.99
5429 Cable/adapt; RS-232 to USB w/drivers	24.99
5803/10 3' coax jumper cable	5.99

RADIOS/TRANSCEIVERS

8100K Shortwave regenerative Rcvr kit	$ 79.99
8100W Shortwave regenerative Rcvr wired	109.99
8621X2 5w APRS ready 2m data radio/144.39 D	179.99
4110 Portable AC power supply	59.99
5100 Data radio cable - MFJ/TAPR Δ	2.99
5100YV Data radio cable - KAM/KPC-3 Δ	2.99
8708 4ch ham micro ATV transmitter	149.99
9015 5w 15m CW Xcvr	199.99
9020 5w 20m CW Xcvr	199.99
9030 5w 30m CW Xcvr	199.99
9040 5w 40m CW Xcvr	199.99
27 Handle for CW station	6.99
412 Plug-in Curtis keyer	49.99
726 Plug-in audio filter	49.99
971 200w portable ant tuner w/meter	119.99
1772 Portable 20m dipole	39.99
1774 Portable 40m dipole	39.99
4110 Portable AC power supply	59.99
4114 Rechargeable power pack	79.99
9402X 7w PEP 2m SSB Xcvr w/mic	269.99
9406X 10w PEP 6m SSB Xcvr w/mic	269.99
9410X 20w PEP 10m SSB Xcvr w/mic	269.99
9420X 20w PEP 20m SSB Xcvr w/mic	259.99
9440X 12w PEP 40m SSB Xcvr w/mic	249.99
9475X 12w PEP 75m SSB Xcvr w/mic	249.99
415B CW adapter for 9420X/9440X	49.99
416 CW adapter for 9402X/9406X/9410X	49.99
971 200w portable ant tuner w/meter	119.99
1770A 10m dipole for 9410X D	39.99
1772 Portable 20m dipole D	39.99
1774 Portable 40m dipole D	39.99
4110 Portable AC power supply	59.99
4114 Rechargeable power pack	79.99

ACCESSORIES

1312D 12vdc 500ma adapter, 2.1mm plug	$ 15.99
1316 12vdc 1.2A adapter	21.99
15 HamGear belt loop radio holder	14.99
16C01 Glazed ceramic end insulator	.99
18 HamGear chest harness/cargo pocket	29.99
92AA01 AA NiMH cell each	3.49
92AA10 10-pack AA NiMH cells	29.99
201 1.5-250 MHz dip meter	139.99
202B RF noise bridge	79.99
207 160-10m SWR analyzer	99.99
208 2m SWR analyzer	89.99
209 1.8-170 MHz SWR analyzer	149.99
212 MatchMaker tune up device	99.99
219B SWR analyzer, 440 MHz/N/SO-239 adapt	109.99
224 2m FM signal analyzer	169.99
249B 1.8-170 MHz SWR analy/LCD counter	249.99
259B 1.8-170 MHz SWR analy/RF res meter	269.99
269 1.8-170+440 MHz SWR analy/RF res mtr	349.99
29C Carrying case w/window; 209/249B/259B	24.99
39C Carrying case w/window; 269	24.99
66 1.8-30/30-170 dip coils; 209/249B/259B	24.99
92AA10 10-pack 1300ma AA NiMH cells	29.99
98 Package of 39C/66/1312D for 269	59.99
98B Pack of 92AA10/39C/66/1312D for 269	93.99
99 Pack of 29C/66/1312D; 209/249B/259B	59.99
99B Pack; 92AA10/29C/66/1312D; 209/249B/259B	93.99
99C Pack - 92AA10/1312D; 209/249B/259B/269	45.99
731 RFI filter for SWR analyzer	99.99
1312D 12vdc 500ma ps for SWR analyzers	15.99
270 Guardian Angel 400w PEP lightning protect	29.99
97 Gas tube plug for 270	9.99

MFJ - continued

	AES Price
281 ClearTone communications speaker	12.99
288I Headset/mic; Icom/ADI/Sta/RS/older Yae	24.99
288K Headset/mic for Kenwood	24.99
288Y Headset/mic; Ico Q7/Yae FT10/50/VX1	24.99
292I Earph/mic; Ico/older Yae/compatibles	17.99
292Y Earphone/mic; Ico Q7/Yae FT10/50/VX1	17.99
293I Rubber flex earloop earbud/mic; Icom	24.99
293K Rubber flex earloop earbud/mic; Kenwood	24.99
293Y Rubber flex earloop earbud/mic; Yaesu	24.99
295I Mini spkr/mic; Icom & compatible HT	16.99
295K Mini spkr/mic; Kenwood & compatible HT	16.99
295Y Mini spkr/mic; Ico Q7/Yae FT10/50/VX1	16.99
297 Desk mic with flexible boom	69.99
5082 Open end - 8-pin mic cable for 297	11.99
5268 Open end - mod phone plug cbl; 297	11.99
5397I Cable/8-pin for 297; Icom HF	17.99
5397K Cable/8-pin for 297; Kenwood HF	17.99
5397Y Cable/8-pin for 297; Yaesu HF	17.99
5397MX Cable/modular for 297; Icom/Kenwood	17.99
5397MY Cable/modular for 297; Yaesu	17.99
310 BNC HT antenna window mount clip	19.99
310S SMA HT antenna window mount clip	19.99
336S 5" tri-mag mt for SO239 ant/17' coax	39.99
336T 5" tri-mag mt for 3/8-24 ant/17' coax	39.99
341M 17' antenna cable; NMO	19.99
341S 17' antenna cable; SO-239	19.99
342S SO-239 mirror/rack/pipe mount w/coax	14.99
342T 3/8-24 mirror/rack/pipe mount	9.99
343 1⅛" hole mount for 3/8-24 whip	9.99
344 Pipe/mirror horiz mount; 3/8-24	9.99
347 HF stick mini dipole mount	19.99
382 Deluxe amplified communications spkr	39.99
388 Cyber Ear 12db ear amplifier	29.99
392B Deluxe communication headphones	24.99
414 Professional Morse Tutor w/LCD	199.99
418 Code Tutor with LCD display	89.99
434B Deluxe Voice Memory Keyer	189.99
73 Remote control head w/cbl; 434/434B	34.99
461 Pocket size Morse code reader	89.99
5161 DB-9 PC serial port cable	16.99
5162 Cable for radio external speaker	7.99
462B RTTY/ASCII/CW/AMTOR Rcvr multi-reader	189.99
5162 Cable for radio external speaker	7.99
464 CW reader w/built-in keyer	189.99
550 Hand key	14.99
554 Deluxe CW practice oscillator	89.99
557 Code oscillator w/key	39.99
616 Speech intelligibility enhancer	179.99
1316 12vdc 1.2A adapter	21.99
281 ClearTone speaker (requires 2)	12.99
392B Deluxe communication headphones	24.99
633 Rapid charger; NiMH/nicad AA/AAA/9V	29.99
662 Simplex pocket repeater	89.99
701 Toroid RFI filters pack of 4	26.99
704 1kw low-pass filter	59.99
762 81db 170MHz BNC attenuator	89.99
801 Super compact field strength meter	29.99
802 Bipolar field strength meter	49.99
802X Field strength/remote meter combo	74.99
805 RFI current detector meter	99.99
850B AC line voltage monitor	24.99
852 AC power line noise finder meter	119.99
854 HF RF current meter	119.99
886 1MHz - 3GHz pocket frequency counter	129.99
888 Deluxe 10Hz - 3GHz frequency counter	189.99
890 DX beacon monitor	109.99
912 W9INN remote balun	69.99
916B 2m/440 duplexer	34.99
931 Artificial ground unit	99.99
1025 Noise canceling antenna	169.99
1026 Deluxe noise canceling unit w/antenna	189.99
1046 1.6-33MHz receiver passive preselector	99.99
1048 1.6-33MHz Xcvr passive preselector	129.99
1112 Multiple DC outlet	44.99

MFJ - continued

	AES Price
1116 Dlx multiple DC outlet	59.99
1117 High current multiple DC outlet	64.99
1118 Dlx high current multiple DC outlet	84.99
1263 2mic in/2rig out switch/1 round cbl/1 modlr cbl	109.99
5397MX Modular mic cable for 1263	17.99
1273B Basic soundcard interface/soft; 8P-R	59.99
1273BM Basic soundcard interface/soft; 8P-M	59.99
1275 Soundcard/rig interface/software; 8P-R	99.99
1275M Soundcard/rig interface/software; 8P-M	99.99
1279 Super soundcard interface/soft; 8P-R	129.99
1279M Super soundcard interface/soft; 8P-M	129.99
1700C 6-pos combo ant/xmtr switch/protect	99.99
1701 6-position coax switch	69.99
1702C 2-pos coax switch/lightning protect	39.99
1702CN 2-pos 1.1GHz N switch/lightning protect	44.99
1703 2-rig/2-antenna RF safety switch	29.99
1704 4-pos 500 MHz switch/lightning protect	79.99
1704N 4-position type N switch	84.99
1925 Controller; Yaesu ATAS-series/other rigs	79.99
1925I2 Controller; Yae ATAS-series/Ico IC-706	79.99
4035MV Dlx 30A adjustable ps, 35A surge	149.99
4103 Switching power supply; Yaesu FT817/etc	49.99
4125MV MightyLite 22A 3.5 lb switch ps, 25A surge	109.99
4225MV MightyLite 22A switch ps, 25A surge/meters	149.99
4245MV MightyLite 40A switch ps, 45A surge/meters	199.99
4601 Coax only window ant feed through panel	59.99
4602 Multi-type window ant feedthrough panel	69.99
4603 Deluxe window ant feedthrough panel	89.99
4616 6-hole air vent feedthrough plate	26.99
4712 160-2m 2-pos remote antenna switch	79.99
7707 NMO to 3/8/24 adapter	8.99
7725 3/8-24 antenna mount quick connect	6.99
7735 Fold-over 3/8-24 stub mount adapter	11.99
7748 UHF to 3/8-24 adapter	5.99

MAHA (MAH)

AAA-T 1.2v 650mah AAA size NiMH batt D,ea	$ 1.49
MH-R-AA4 4pack 1.2v 2700mah AA NiMH cells	16.99
MH-96V200 9.6v 200mah 9v size NiMH batt D	9.99
MHS-DC-124 Cig adapter; MH-C124S/C204F D	.19
MH-C801D 1-8 AA/AAA NiMH/NiCD quick charger	84.99
MHS-C800U External charger pin shell D	.19
MHS-C801 Cup; T2/W32/TH22/79/FT10/50 D	1.99
MHS-C806 Cup; Ali 195/580/F1/G5/V5/etc D	.99
MHS-DC-777 Cig lighter cord D	2.99
MH-C9000 4 AA/AAA NiMH WizardOne cgr/analyzer	69.99
MH-K5000 Quick cgr/conditioner w/4 AA2500 D	39.99
MH-BP-7 13.2v 1000mah Icom nickel hydride	69.99
MH-BP-8 8.4v 1300mah Icom nickel hydride	59.99
MH-BP-173 9.6v 650mah Icom nickel hydride	69.99
MH-BP-180 7.2v 1000mah Icom nickel hydride	49.99
MH-BP-200 9.6v 680mah Icom nick hydride/clip	59.99
MH-BP-211LI 7.4v 1800mah Icom Li-ion Δ	49.99
MH-FNB-12 12v 1000mah Yaesu nickel hydride	49.99
MH-FNB-17 7.2v 1000mah Yaesu nickel hydride	49.99
MH-FNB-27 12v 1000mah Yaesu nickel hydride	49.99
MH-FNB-38 9.6v 650mah Yaesu nickel hydride	59.99
MH-FNB-41 9.6v 1000mah Yae nick hyd/spg clip	55.99
MH-FNB-V47 7.2v 1800mah Yae nick hyd/spg clip Δ	44.99
MH-FNB-V57 7.2v 1500mah Yae nickel hydride Δ	29.99
MH-FNB-58LI 7.4v 1200mah Yae Li-polymer	59.99
MH-FNB-80LI 7.4v 1500mah Yaesu Li-ion	59.99
MH-FNB-83 7.2v 2000mah Yae nickel hydride	59.99
MH-PB-8 12v 1300mah Kenwood nickel hydride Δ	29.99
MH-PB-17 12v 1300mah Kenwood nickel hydride Δ	34.99
MH-PB-18 7.2v 1300mah Ken nick hyd; wall cgr only Δ	29.99
MH-PB-32 6v 1000mah Kenwood nickel hydride	39.99
MH-PB-34 9.6v 1000mah Kenwood nickel hydride	57.99
MH-PB-39 9.6v 1050 mah Ken nickel hyd/clip	59.99
MH-PB-39H 6v 1800mah Ken nickel hyd/clip	59.99
MH-PB-42LI 7.4v 1800mah Ken Li-polymer	59.99
MH-800K 500mw spkr/mic w/clip; Kenwood	19.99
MH-800S 500mw spkr/mic/clip; Ali/Ico/Sta/Yae	19.99

Maha - continued

	AES Price
MH-800Y 500mw spkr/mic; Yae FT50/VX1R ..	24.99

MALDOL (MAL)

AH-C14 20m loading coil only w/BNC; FT-817 D	$ 9.99
AH-C28 10m loading coil only w/BNC; FT-817 D	9.99
AH-W100RX 70-900MHz 40" tele BNC rcv ant	32.99
AS-20 2m/440 8.5" superflex SMA antenna...	26.99
AS-25 2m/440 1" SMA antenna	19.99
AS-30 2m/440 15" 0/2.15db superflex SMA ant	29.99
AX-50 2m/440 0/5db 21" mobile antenna	49.99
AX-75 2m/440 3.2/5.7db 30" mobile ant	59.99
AX-95 2m/440 3.3/5.8db 38" mobile ant	66.99
EM-B80 Small trunk/hatch/van door lip mt ..	25.99
EM-5M Sm tnk/hatch mt (EM-B80) w/16.5'cbl	59.99
EX-104B 2m/440 black 0/2.15db 15" mob .D	39.99
EX-104BNMO 2m/440 blk 0/2.15db 15" NMO D	39.99
EX-107RB 2m/440 black 2.6/4.9db 29" mob	56.99
EX-107RBNMO 2m/440 blk 2.6/4.9db 29" NMO	56.99
EX-510B 6m/2m/440 blk 0/2.15/5.5db 37" mob	66.99
EX-510BNMO 6m/2m/440 blk 0/2.15/5.5db 37" NMO	66.99
HMC-6S 20/15/10/6/2m/440 66" mobile ant	149.99
HMC-7C 40m loading coil for HMC-6S	34.99
HMC-35C 80/75m loading coil for HMC-6S	39.99
HVU-8 80/40/20/15/10/6/2/440 8.6' vert/radials	329.99
MH-209 2m/440 3" BNC duck	23.99
MH-209SMA 2m/440 3" SMA duck	23.99
MH-510 6m/2m/440 0/0/3.2db 20.75" SMA duck	37.99
MH-511 6m/2m/440 4" SMA duck	33.99
MH-610 2m/220/440 0/1.8/3.2db 14" SMA duck	49.99
MK-30H Motorized tnk lip/hatch/van door mt	109.99
MK-RR Roof rack bracket for MK-30H	19.99

MEADOW RIDGE (CRO)

SOLID COPPERWELD ANTENNA WIRE

AN-126 500 feet No. 12 .....D	$139.99
AN-128 1000 feet No. 12 .....D	199.99

MIDLAND (MID)

18-258 On glass mount mobile CB antenna .	$ 19.99
21-406 Deluxe mobile speaker w/3.5mm plug	22.99
74-250C SAME handheld WX/hazard alert radio	49.99
AVP-5 Accs;bat/cgr/dcadpt/acadapt/headset/mt;NT-1 D	4.99
WR-300 AM/FM/SAME WX/hazard alert radio/ps	59.99

Miracle Antenna (MIA)

Ducker IL In-line HF rcv tuner; HH//QRP xmit	$139.99
Miracle Whip 3.5-450MHz 57" QRP ant/tuner	139.99

MIRAGE (MIR)

A-1015G 50-52 FM/SSB 10/150w amp/preamp	$359.99
B-34 2m FM 2/35w amplifier; no mob bkt	99.99
B-34G 2m FM/SSB 2/35w amp/preamp	109.99
B-310G 2m FM/SSB 4/100w amp/preamp	219.99
B-320G 2m FM/SSB 50/200w amp/preamp ..	459.99
B-1018G 2m FM/SSB 10/160w amp/preamp	369.99
B-2518G 2m FM/SSB 25/160w amp/preamp	299.99
B-2530G 2m FM/SSB 25/300w amp/preamp	679.99
B-5018G 2m FM/SSB 50/160w amp/preamp	299.99
B-5030G 2m FM/SSB 50/300w amp/preamp ..	669.99
BD-35 2m/440 4/45//4/35w HT amp	169.99
B-24G 5/50w 2m HT dock boost amp/pre	109.99
MI-3 Ico W21AT/X21AT adapt; B24G/BD25 Δ	.99
MK-2 Ken 22/79 adapter; B24G/BD25 ....Δ	.99
C-1022G 220 FM/SSB 10/220w amp/preamp	699.99
C-2512G 220 FM/SSB 25/120w amp/preamp	309.99
D-15N 430 FM/SSB/ATV 2/15w type N amp Δ	99.99
D-26N 440 FM/SSB 2/60w type N amplifier Δ	169.99
D-1010N 440 FM/SSB 10/100w type N amp .	379.99
D-3010N 440 FM/SSB 30/100w type N amp .	349.99
D-1010-ATVN 430 ATV 10/52w type N amp ...	399.99
RC-1* Remote control head w/18' cable	49.99
*Not for B-23/C-22/D-26	
RC-2 Rem ctl head/cable; B-XX18G	49.99

Mirage - continued

	AES Price
The following Repeater Amplifers are Special Order. Specify SO-239 or type N connectors.	
A-1015NR 6m FM 2/110w type N amplifier ...	$549.99
A-1015R 6m FM 2/110w SO-239 amplifier ...	529.99
C-211NR 220 FM .5/80w type N amplifier	619.99
C-211R 220 FM .5/80w SO-239 amplifier	599.99
C-1012NR 220 FM 5/90w type N amplifier ...	619.99
C-1012R 220 FM 5/90w SO-239 amplifier	599.99
C-2512NR 220 FM 15/90w type N amplifier .	589.99
C-2512R 220 FM 15/90w SO-239 amplifier ..	569.99
D-1010NR 440 FM 4/80w type N amplifier ...	629.99
D-1010-ATVN-R 430 ATV 4/80w type N amp .	629.99
D-3010NR 440 FM 12/80w type N amplifier .	599.99
PREAMPS	
KP-1/6M 6m in shack N preamp	$139.99
KP-1/2M 2m in shack N preamp	139.99
KP-1/440 440 in shack N preamp	139.99
KP-2/6M 6m mast mount N preamp	179.99
KP-2/2M 2m mast mount N preamp	184.99
KP-2/440 440 mast mount N preamp	184.99

NCG (NCG)

Power Pocket 12v 2AH lead acid belt batt/cgr	$ 72.99

NCS (NCS)

NCS-1512 Wall power supply; NCS-3240 ...Δ	$ 6.99
NCS-1514 Wall power supply; NCS-3230 ...Δ	14.99
NCS-LoZRJ12-Y Yaesu RJ-12 interface cbl ... Δ	9.99

NIFTY (NIF)

E-Z Guide to **D-Star** Operation	$ 13.99
MM-IC91AD Mini-manual/ref card combo	20.99
MM-IC92AD Mini-manual/ref card combo	22.99
MM-IC2820H Mini-manual	20.99
MM-IC706MkIIG Mini-manual	16.99
MM-IC718 Mini-manual	16.99
MM-IC746PRO Mini-manual	20.99
MM-IC756PRO3 Mini-manual	20.99
MM-IC7000 Mini-manual	20.99
MM-IC7600 Mini-manual	24.99
MM-IC7700 Mini-manual	24.99
MM-TMD710A Mini-manual	22.99
MM-TMV71A Mini-manual	18.99
MM-TS2000/X Mini-manual	18.99
MM-FT450/AT Mini-manual	20.99
MM-FT817ND Mini-manual	16.99
MM-FT857D Mini-manual	16.99
MM-FT897D Mini-manual	16.99
MM-FT950 Mini-manual	20.99
MM-FT2000/D Mini-manual	20.99
MM-FT7800R Mini-manual	16.99
MM-FT8800R Mini-manual	16.99
MM-FT8900R Mini-manual	16.99
MM-VX8R Mini-manual/ref card combo	22.99
QR-IC208H Quick reference card	5.99
QR-IC2200H Quick reference card	5.99
QR-ICT90A Quick reference card	5.99
QR-ICV8 Quick reference card	5.99
QR-ICV8000 Quick reference card	5.99
QR-THF6A Quick reference cards (2)	7.99
QR-TM271A Quick reference card	5.99
QR-FT60R Quick reference card	5.99
QR-FT270 Quick reference card	5.99
QR-FT1802M Quick reference card	5.99
QR-FT2800M Quick reference card	5.99
QR-VX3R Quick reference cards (2)	7.99
QR-VX6R Quick reference card	5.99
QR-VX7R Quick reference card	5.99
QR-VX170/177 Quick reference card	5.99

Night Owl Optics (NOO)

NOCA-42 Camera adapter .....Δ	$ 1.99

NORCOMM (NOR)

NC-101 Tunable CTCSS encoder	$ 21.99

Norcomm - continued

	AES Price
NC-106 Prog CTCSS encoder/decoder .....D	67.99
NC-401 Sub-miniature DTMF decoder	76.99

Oregon Scientific (ORE)

WMR-112A Wireless weather station .....D	$ 59.99

OUTBACKER (OUT)

OB-8 75-10m 300w PEP 6' 8-band mobile ant Δ	$279.99
OB-8HP 75-10m 500w PEP 6' 8-band mob ant	329.99
OB-S8 75-10m 300w PEP split ant/storage bag Δ	269.99
OB-8TRI 75-10m 300w PEP 3pc 6' port ant/bag	339.99
Joey 80-2m 20w antenna w/counterpoise	299.99
MicroMount Tripod system for Joey.....	49.99
OB-M 75/40/20/17/10m/HF marine 300w PEP 6' Δ	349.99
Perth 75-10m 150w PEP 7.5' mobile ant	329.99
Perth Plus 75-10m+6m/2m 150w PEP 6' mob ant	329.99
Stealth Plus 75-10m+6/2m 100w PEP 4' ant	319.99
Outreach 160-10m 300w PEP 9' antenna	419.99
Outreach 500 80-6m 600w PEP 9' antenna .	449.99
Outpost Base tripod mtg system for mobile ant	275.99
OB-SB ⅜-24 spring and ½" hole base	129.99
Diamond **K-400-3/8C** ⅜-24 trunk mt, 6' coax	73.99
Diamond **C-110** 10' ext cable; K-400-3/8C	19.99

PDK Technologies (PDK)

LiteFlare 3-Pk 3-pack red LiteFlare/carry bag	$ 29.99

Palomar Engineers (PAL)

RFI-4 RF interference kit	$ 25.99

PALSTAR (PLS)

AT-1KP 1200w PEP antenna tuner	$469.99
AT-2K 2000w PEP antenna tuner	529.99
AT-4K 2.5kw T-match edgewound roller ind tuner	895.99
AT-5K 3.5kw T-match ceramic roller ind tuner	1195.99
AT-1500DT 1500w PEP antenna tuner	495.99
AT-AUTO 1500w automatic antenna tuner	1195.99
BT-1500A 1500w PEP antenna tuner	695.99
DL-2K 2000w 30MHz dummy load w/fan	249.99
ZM-30 1-30MHz antenna analyzer	399.99

PENETROX (PEN)

Penetrox A 4 oz tube for antennas	$ 14.99

POLYPHASER (PLY)

LIGHTNING PROTECTION

IS-50NX-C2 125-1000 375/125/50w N flange	$ 62.99
IS-50UX-C0 1.5-400 2kw/375/125w flange mt	66.99
IS-50UX-C1 50-700MHz 375/125w flange mt	66.99
IS-B50LN-C2 125-1000 375/125/50w N bulkhead	69.99
IS-B50LU-C0 1.5-400 2kw/375/125w bulkhead	69.99
IS-B50LU-C1 50-700 375/125w bulkhead mt	69.99
PLDO-120US15A 120v 15A power protector Δ	119.99
PLDO-120US20A 120v 20A power protector .	199.99
IS-RCT 8-wire rotor control protector	129.99
J-1 ½" to 1⅓" bronze transition clamp	14.99
J-2 1½" to 2¼" bronze transition clamp Δ	1.99
IX-1TW Single phone line protector .....D	39.99
CS112-25 25' 1½" copper strap	49.99
CS112-50 50' 1½" copper strap	89.99
CS112-100 100' 1½" copper strap .....Δ	119.99
CS3-25 25' 3" copper strap	89.99
CS3-50 50' 3" copper strap	129.99
CU-SPGP Copper single point ground panel .	179.99
TK-2 1½" strap to Rohn twr corrosion free clamp	8.99
1C-112S #6-#1 wire to 1½" strap clamp bond	33.99
58R-112S 1½" strap to ⅝" gnd rod clamp bond	32.99
UNI-KIT 2TC Gnd kit; galv twr leg to copper Δ	6.99
UNI-KIT 2CC Ground kit; coax to copper	49.99
CCK Copper cleaning kit; 4 oz can, brush	28.99
LPGS/CD Lightning Protection/Grounding CD	9.99

POWERWERX (POW)

APO-3-PP Voltage/time controlled power switch	$ 59.99
BT-Junior Battery Tender Junior charging sys	39.99

Powerwerx - continued

	AES Price
BY-T OEM-T inline Powerpole splitter	12.99
C20-5 5' 15A cig plug to T-male connector	14.99
C2P-5 5' 15A cig plug to Powerpole	14.99
Clip-2-PP Alligator clips w/fuse to Powerpole	9.99
CT-2 Crimp tool for 15/30/75A Powerpole	12.99
EX-14-5 5' 14ga Powerpole extension cable	7.99
HF4-PP New stype HF 4p to Powerpole adapter	15.99
HF6-PP 6p male Molex to Powerpole adapter	15.99
HFSOC-HF4 6p female Molex to new style HF 4p	15.99
LF-1-PP 16A DC noise filter w/30A Powerpoles	39.99
P20-5 5' Powerpole to T-male connector	14.99
PPH-10 10ga fuseholder w/45A Powerpoles	14.99
PPH-12 12ga fuseholder w/30A Powerpoles	12.99
PP30-10 10-pair 30A Powerpole connectors	9.99
PP30-25 25-pair 30A Powerpole connectors	19.99
PP45-10 10-pair 45A Powerpole connectors	14.99
PP45-25 25-pair 45A Powerpole connectors	29.99
110G68-5 Retention clips for PP30/45 (5)	2.99
PPC-1 Powerpole weather resistant end cap	1.99
TRIcrimp Crimp tool for 15/30/45A Powerpoles	39.99
PP75-08-2 2-pr 75A Powerpole connectors/8 ga	7.99
PPC-1 Powerpole weather resistant end cap	1.99
PSC-10 6' 45A Powerpole to ring terminals	13.99
PS-4 4-terminal 45A Powerpole splitter	17.99
PS-4 Plus 4-terminal 45A "X" Powerpole splitter	17.99
PS-6AA 8-terminal 45A Powerpole tap splitter	34.99
PS-8 8-terminal 45A Powerpole splitter	27.99
RB-08-25 25' 8ga red/black DC pwr zip cord	49.99
RB-10-25 25' 10ga red/black DC pwr zip cord	34.99
RB-12-25 25' 12ga red/black DC pwr zip cord	22.99
RB-12-50 50' 12ga red/black DC pwr zip cord	41.99
RB-14-25 25' 14ga red/black DC pwr zip cord	14.99
RGH-10 10g fuseholder/45A Powerpole/ring	14.99
RGH-12 12g fuseholder/30A Powerpole/ring	12.99
SOC-PP 15A cig socket to Powerpole	14.99
Watt-BLU-PP-C Watt's Up meter w/Powerpoles	63.99

PREMIER (PRE)

AL-800 2m/440 34" BNC rubber duck ant	$ 29.99
RD-2SMA 2m/440 2" SMA duck D	9.99
RD-8 2m/440/900 6.5" BNC duck	14.99
RD-9 2m/440/900 7" BNC duck	18.99
RD-78 2m/440/900 15" BNC whip	19.99
RD-98SMA 2m/440 17" SMA whip	27.99
SPM-100 Spkr/mic; ADI/Alinco/Icom/Yaesu	32.99
SPM-101 Spkr/mic for Kenwood	32.99
SPM-102 Spkr/mic; Yae FT50/60/VX1/3/5/150	32.99
SPM-400A Boom/mic; ADI/Alinco/Icom/Yaesu	41.99
SPM-402A Boom mic; FT50/60/VX1/3/5/150	41.99

PRO AM by VALOR (VAL)

VHF/UHF ANTENNAS ONLY (No Mounts)

MO144-440 2m/440 antenna only Δ	$ 14.99
PAQA 136-515 MHz ¼ wave antenna only D	14.99

MOUNT ONLY FOR ABOVE ANTENNAS

PAS ¾" NMO mount w/coax Δ	$ 14.99

OTHER VHF/UHF ANTENNAS & MOUNTS

120 Sawtooth hump mt for mobile radios D	$ 6.99
301 4" low profile ⅜-24 magnet mt w/coax D	14.99
MM-3401 Maxi-mag mt ⅜-24/NMO (3-5" mags) Δ	49.99
SS-100MOT 3-way NMO mirror mt w/coax Δ	14.99
TGMKD On glass replacement mtg kit Δ	2.99
HWTGSBNC 112-1.2GHz on-glass scanner ant/BNC Δ	19.99
MM-270B 2m/440 micro mag mt anw/BNC Δ	9.99

MOBILE HF ANTENNAS (No Mounts)

PHF-SB 75/40/20/15/10m whips Δ	$ 59.99
PHF-12B 12m 8' ⅜-24 whip (4' coil, 4' whip) D	9.99
PHF-10B 10m 8' ⅜-24 whip (4' coil, 4' whip) Δ	24.99
AST-GPK 3/8-24 mtg/gnd plane kit D	6.99

QRZ (WAL)

Ham QRZ US & international calls plus programs	$ 24.99

QSL Card Holders (ART)

	AES Price
QSL Card Holders, pack of 3, 20 cards/holder	$ 19.99

RCA (RCA)

RP-7887 Super Radio AM/FM portable Rcvr D	$ 59.99

RF PARTS (See Diamond)

RT SYSTEMS (RTS)

RTS-03 USB to serial adapter	$ 22.99
WCS-91 Prog software w/cable; IC-91A/AD	49.99
WCS-208 Prog software w/cable; IC-208H	49.99
WCS-2200 Prog software w/cable; IC-2200H	49.99
WCS-2820 Prog software w/cable; IC-2820H	49.99
WCS-7000 Prog software w/cable; IC-7000	49.99
WCS-T90 Prog software w/cable; IC-T90A	49.99
WCS-V8000 Prog software w/cable; IC-V8000	49.99

RADIO OASIS (RAO)

G5RV/STD 80-10m 102' G5RV antenna	$ 59.99
G5RV/JUNIOR 40-10m 51' G5RV antenna	45.99
G5RV/MINI 20-10m 25.5' G5RV antenna	39.99

RADIOWAVZ (RAD)

160MC/BALUN 250' 160m dipole w/1:1 balun	$ 79.99
80MC/BALUN 130' 80m dipole w/1:1 balun	59.99
40MC/BALUN 66' 40m dipole w/1:1 balun	47.99
30MC/BALUN 46' 30m dipole w/1:1 balun	47.99
20MC/BALUN 32' 20m dipole w/1:1 balun	39.99
17MC/BALUN 26' 17m dipole w/1:1 balun	37.99
15MC/BALUN 22' 15m dipole w/1:1 balun	37.99
12MC/BALUN 19' 12m dipole w/1:1 balun	37.99
10MC/BALUN 17' 10m dipole w/1:1 balun	37.99
160M-DBZ* 265' 160m double bazooka ant	129.99
75M-DBZ* 127' 75m double bazooka ant	79.99
40M-DBZ* 70' 40m double bazooka ant	59.99
*Buy 2 Radiowavz double bazookas and get 1 free direct from Radiowavz, USA only; expires 2/7/10	
DX-160 246' 160m OCF windom antenna	*119.99
*Price after instant coupon; coupon expires 2/7/10	
DX-80 136' 80m OCF windom antenna	*69.99
*Price after instant coupon; coupon expires 2/7/10	
DX-40 67' 40m OCF windom antenna	59.99
B-11A 1:1 160-6m voltage balun	21.99
B-11ISO 1:1 160-6m isolation balun	29.99
B-14VA 4:1 160-10m voltage balun	25.99
B-19TX 9:1 160-10m isolation balun	29.99
DPH Dipole head w/eye hook	9.99
EFH-10 10m 16.75' end fed half wave antenna	45.99
EFH-20 20m 33' end fed half wave antenna	47.99
EFH-40 40m 66' end fed half wave antenna	49.99
EFH-80 80m 132' end fed half wave antenna	79.99
EFT-110 1.7-30 MHz 110' end fed inverted V	*199.99
*Price after instant coupon; coupon expires 2/7/10	
FTD-20 7-30 MHz 20' folded dipole	*199.99
*Price after instant coupon; coupon expires 2/7/10	
FTD-45 5-30 MHz 45' folded dipole	*199.99
*Price after instant coupon; coupon expires 2/7/10	
FTD-65 3-30 MHz 65' folded dipole	*199.99
*Price after instant coupon; coupon expires 2/7/10	
FTD-90 1.8-30 MHz 90' folded dipole	*249.99
*Price after instant coupon; coupon expires 2/7/10	
FT-DMK Mtg kit; folder dipole w/3 pole installation	45.99
G5RV 102' G5RV antenna, 32' tall	39.99
G5RV JR 51' G5RV antenna, 14' tall	28.99
G5RV LITE 68' G5RV antenna, 32' tall	48.99
G5RV MAX 204' G5RV antenna, 56' tall	75.99
HP-B11C 1:1 current choke high power balun	75.99
HP-B11D 1:1 current dipole high power balun	75.99
HP-B14C 4:1 current high power balun	97.99
HP-B14VT 4:1 tuner extender high power balun	79.99
HP-B19LW 9:1 long wire high power balun	97.99
HP-ISOX High power RF isolation transformer	79.99
J8X-U1 1.5' RG-8X coax/silver teflon PL259s	9.99

Radiowavz - continued

	AES Price
J8X-U3 3' RG-8X coax/silver teflon PL259s	11.99
J8X-U6 6' RG-8X coax/silver teflon PL259s	14.99
J8X-U12 12' RG-8X coax/silver teflon PL259s	22.99
J8X-U25 25' RG-8X coax/silver teflon PL259s	29.99
J8X-U50 50' RG-8X coax/silver teflon PL259s	37.99
J8X-U75 75' RG-8X coax/silver teflon PL259s	49.99
J8X-U1X 100' RG-8X coax/silver teflon PL259s	63.99
J213-U6 6' RG-213 coax/silver teflon PL259s Δ	17.99
J213-U12 12' RG-213 coax/silver teflon PL259s Δ	24.99
TL308-100 100 ft 18ga 300 ohm twinlead	24.99
WCCS147-100 #14 stranded ant wire, 100 ft.	14.99
WCCS147-250 #14 stranded ant wire, 250 ft.	35.99

SGC (SGC)

52-96 SG-500 1.8-24MHz 12v 500w PEP amp	1349.99
51-82 Fan kit; continuous duty xmit SG500	220.99
54-14 SG-230 200w 1.8-30 MHz 12v Smartuner	499.99
54-15 SG-235 500w 1.8-30MHz 12v Smartuner	1099.99
54-18 SG-237 100w PEP HF+6m mini Smartuner	299.99
54-22 SG-239 200w Smartuner	195.99
54-63 SmartLock; SG230/237/239 after 9/1/93	60.99
54-25 MAC-200 Smartuner/ant switch combo	265.99
70-14 ADSP2 DSP noise reduction speaker	159.99

SAMLEX (SAM)

FCP-1000 1A ps w/cigarette lighter socket	$ 7.99
SEC-1223 23A switching power supply w/fan	99.99
SEC-1235 30A switching ps w/fan, 35A surge	119.99
SEC-1235M 30A switch ps/fan/meters, 35A surge	139.99
SI-175HP 175w 12vdc-115vac inverter	29.99
SI-400HP 400w 12vdc-115vac inverter	49.99
SPS-1204UL 3.5A switching ps+cig socket	29.99

SANGEAN (SAN)

ATS-404 AM/FM/SW portable receiver w/case	$ 79.99
ATS-505P AM/FM/SW portable receiver	129.99
ATS-606AP AM/FM/shortwave portable receiver	139.99
ATS-909* AM/FM/shortwave portable Rcvr	249.99
*$25 rebate from Sangean thru 10/31/09; USA only FREE DT-300VW FM/WX Rcvr w/ATS-909! limited time!	
HDR-1 AM/FM/HD table-top radio	179.99
HDT-1 HD radio component tuner	179.99
PR-D2 AM/FM portable dark grain "Q" radio D	39.99
RCR-2 AM/FM atomic clock radio	69.99
WFR-20* Wi-Fi internet radio & media player	279.99
*$25 rebate from Sangean thru 10/31/09; USA only	
WR-1 AM/FM wooden cabinet receiver	99.99
ANT-60 Portable wind-up SWL antenna	13.99

SEQUOIA (SEQ)

POCKET PC REF Pocket PC reference book	$ 15.99
POCKET REF Pocket reference book	12.99
WinRef 98-95 Windows pocket reference book Δ	.29

SHAKESPEARE (SHA)

396-1 3db 5' VHF marine ant, less mount	$ 69.99
5202 6db 8' VHF mar ant/chrome ferrule, less mt	109.99
5206-C Econo 8' VHF mar ant/chrome ferrule, no mt	59.99
4187 Stainless steel ratchet mount	39.99
5215 3db 36" sailboat VHF marine ant w/mt	49.99
420 3db 5' VHF marine ant w/fold-down mt	69.99
PL-259-CP-G Solderless PL-259; RG-8X/58	7.99
PL-258-CP-G Solderless splice; RG-8X/58	11.99

Smiley Antenna (SMI)

14610 2m BNC Super Stick ⅝ wv telescopic ant	$ 19.99
14619 2m BNC ⅝ wv tele & stubby ants Δ	24.99
14620 2m BNC ⅝ Slim Duck rubber ant	19.99
14626 2m SMA ⅝ Slim Duck rubber ant	19.99
14629 2m BNC ⅝ duck & stubby ants Δ	24.99
14630 2m BNC Slim Duck thin rubber ant Δ	9.99
14650 2m BNC rubber duck antenna	15.99
14656 2m SMA rubber duck antenna	15.99
14660 2m BNC stubby rubber duck ant Δ	9.99
14670 2m BNC mini rubber duck antenna Δ	9.99

Smiley - continued

		AES Price
14680	2m ½ wave BNC whip/flex coil	25.99
22010	220 BNC Super Stick ⅝ wv telescopic ant Δ	14.99
22019	220 BNC ⅝ wv tele & stubby ants Δ	14.99
22020	220 BNC ⅝ Slim Duck rubber ant Δ	14.99
22029	220 BNC ⅝ duck & stubby ants Δ	14.99
22030	220 BNC Slim Duck thin rubber ant Δ	6.99
22050	220 BNC rubber duck antenna	15.99
22060	220 BNC stubby rubber duck ant Δ	6.99
22200	2m/220 BNC Thin Stick ⅜ wave tele whip	16.99
27000	2m/220/440 BNC gain telescopic whip	19.99
27006	2m/220/440 SMA gain telesopic whip	19.99
44010	440 BNC Super Stick ⅝ wv tele ant	19.99
44019	440 BNC ⅝ wv tele & stubby ants Δ	19.99
44020	440 BNC ⅝ Slim Duck rubber ant	19.99
44029	440 BNC ⅝ duck & stubby ants Δ	14.99
44040	440 BNC slimline type duck Δ	6.99
44060	440 BNC stubby rubber duck ant Δ	9.99
44070	440 BNC mini rubber duck antenna Δ	6.99
TAQ-2	2m ¼ wave stainless whip	10.99
TAQ-220	220 ¼ wave stainless whip Δ	6.99
TAQ-440	440 ¼ wave stainless whip Δ	6.99

SOLARCON (SOL)

A-99	10m/CB 17' 8" fiberglass base ant	$ 89.99
GPK-1	Ground plane radial kit	64.99

SONY SHORTWAVE (SON)

ICF-SW11	AM/FM/SW compact receiver D	$ 39.99
ICF-SW7600GR	AM/FM/SW portable Rcvr	$159.99

STICKY PAD (STI)

13810	7¼" x 4⅜" sticky pad for handhelds, etc	$ 5.99
13820	8¾" x 6⅞" sticky pad for larger items	9.99

Synthetic Textiles (SYN)

100'	3/32" black double braided rope	$ 9.99
100' 3/16	3/16" black double braided rope	18.99
100' 5/16	5/16" black double braided rope	26.99
350'	3/16" black double braided rope	49.99

TalkSafe (TAL)

TS-062-801	TalkSafe main unit for mobiles	$182.99
TS-062-813	Mic cable; Ali/Ico modular RJ-45	16.99
TS-062-814	Mic cable; Yae modular RJ-12	16.99
TS-062-815	Mic cable; Ken/Yae modular RJ-45	16.99
TS-062-818	Mic cable; Ali/Ken 8-pin round	16.99
TS-062-819	Mic cable; Ico/Yae 8-pin round	16.99
TS-062-802	TalkSafe main unit; HT's/FT-817	182.99
TS-062-835	Mic cable for Yaesu FT-817	16.99
TS-062-836	Mic cable for Yaesu threaded	16.99
TS-062-837	Mic cable for Kenwood	16.99
TS-062-838	Mic cable; Yaesu single pin	16.99
TS-062-842	Mic cbl; 2-pin Alinco/Icom/Yaesu	16.99

Terk Technologies (TER)

Advantage	Indoor passive fine-tunable AM ant	$ 49.99
HDTV-I	Indoor UHF/VHF HDTV antenna	49.99
LF-30S	2.4GHz wireless vid/aud sys/rem features	99.99
PI-B	Indoor AM/amplified FM loop antenna	49.99
Tower	Indoor AM/amplified FM tower ant Δ	27.99
TV-55	Indoor/outdoor amplified HDTV antenna	99.99

Times Microwave (TMS)

LMR-400	Standard ⅜" coax cable per ft.	$ .93
LMR-400	500 ft. Roll	359.99
LMR-400-DB	Watertight ⅜" coax cable per ft.	1.05
LMR-400-DB	500 ft. Roll	409.99
LMR-400-UF	UltraFlex ⅜" coax cable ...per ft.	1.40
LMR-400-UF	500 ft. Roll	549.99

TIMEWAVE (TIM)

ANC-4	RF noise canceller	$199.99
AC-1	12vdc 600 ma adapter	15.99
AC-5	12vdc 1.7A desktop ps	22.99
DSP-599zx	All-mode DSP noise filter	399.99
AC-5	12vdc 1.7A desktop ps	22.99

Timewave - continued

		AES Price
PK-96/100K	9600 baud controller/128K RAM	219.99
(CSS) ROC Digital Desktop; AEA/Tim Soft PK-12/96/232		99.99
AC-1	12vdc 600 ma adapter	15.99
AC-5	12vdc 1.7A desktop ps	22.99
PK-232/PSK	Multimode controller w/sound card	499.99
PK-232/USB	Multimode controller/sound card/USB	529.99
(CSS) ROC Digital Desktop; AEA/Tim Soft PK-12/96/232		99.99
AC-5	12vdc 1.7A desktop ps	22.99
TZ-900N	.2-55MHz type N antenna analyzer	899.99
TZ-900S	.2-55MHz SO239 antenna analyzer	899.99

TRIPP LITE (TRI)

ISOBAR-8 ULTRA	8 outlet surge suppress/LEDs	$ 79.99
SUPER-7	7 outlet surge suppressor	19.99
SUPER-7+TEL	7 outlet/fax modem surge	29.99

TUBES (TUB)

6146B	Tube	$ 29.99
12BY7A	Tube	34.99
3-500ZG-RFP	High dissipation tube (3-500Z)	199.99
572B	Tube	59.99
811A	Tube	24.99

US TOWER (UST)

FREE STANDING CRANK-UPS (not for T²X)

TX-438	38' crank-up tower T	1799.99
TX-455	55' crank-up tower T	2499.99
TX-472	72' crank-up tower T	4099.99
TX-472MDP	72' crank-up w/motor drive T	6599.99
TX-489MDPL	89' crank-up w/motor drive T	10699.99

FREE STANDING HD CRANK-UP TOWERS

HDX-538	38' crank-up tower T	2149.99
HDX-555	55' crank-up tower T	3749.99
HDX-572MDPL	72' crank-up w/motor drive T	9799.99
HDX-589MDPL	89' crank-up w/motor drive T	12799.99
HDX-689MDPL	89' HD crank-up w/motor T	25249.99
HDX-5106MDPL	106' HD crank-up w/motor T	27469.99

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS	33' crank-up tower T	1949.99
TMM-433HD	33' HD crank-up tower T	2349.99
TMM-541SS	41' crank-up tower T	2549.99

ACCESSORIES FOR CRANK-UP TOWERS

CX-2	Coax arms (2) for 2-section tower	$ 89.99
CX-3	Coax arms (3) for 3-section tower	119.99
CX-4	Coax arms (4) for 4-section tower	194.99
CX-5	Coax arms (5) for 5-section tower	249.99
CX-6	Coax arms (6) for 6-section tower	329.99
IV-16	Inverted vee arm for MA's	67.99
M-5	2" OD 5' mast extension for MA's	67.99
M-10	2" OD 10' mast T	119.99
M-15	2" OD 15' mast T	179.99
M-15R	2" OD 15' reinforced mast T	269.99
M-20	2" OD 20' mast T	229.99
M-20R	2" OD 20' reinforced mast T	349.99
CM-20	2" OD 20' cromolly mast T	CALL
HDP	Service platform T	1819.99
MD-75	Heavy duty 1 HP motor drive T	1479.99
MDP-750*	Pull-down drive; TX-472/HDX-555 T	2299.99
MDPL-1000*	Pull-down drive; HDX-572 T	3119.99

*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately

MRF	Mast raising fixture	449.99
MCL-100	Limit switch package	699.99
RMC-1000	Remote control w/limit switch	1479.99
TRX-80	Raising fixture; TX-438/455;HDX-538/555 T	679.99
TRX-80HD	Raising fixture;TX-472/489;HDX-572/589 T	899.99
TRX-100HD	Raising fixture; HDX-689/5106 T	1199.99
TB-2US	Thrust bearing; 2" mast w/2 flange holes	169.99

MA-SERIES TUBULAR TOWERS

MA-40	40' crank-up tubular tower T	1449.99
MA-550	55' crank-up tubular tower T	2249.99
MA-550MDP	55' crank-up tubular w/motor T	4299.99

US Tower - continued

		AES Price
MA-770*	70' crank-up tubular tower T	3699.99
MA-770MDP*	70' crank up tubular w/motor T	5799.99
MA-850*	85' crank-up tubular tower T	5699.99
MA-850MDP*	85' crank-up tubular w/motor T	7799.99

*Requires MAB or MARB-series base

MA-SERIES ACCESSORIES

CX-2M	Coax arms (2) for MA-40	$ 94.99
CX-3M	Coax arms (3) for MA-550	139.99
CX-4M	Coax arms (4) for MA-770	229.99
CX-5M	Coax arms (5) for MA-850	279.99
MAB-40	Hinged base for MA-40 T	569.99
MAB-550	Hinged base for MA-550 T	669.99
MAB-770	Hinged base for MA-770 T	799.99
MAB-850	Hinged base for MA-850 T	1049.99
MAF-40	Raising fixture for MA-40	369.99
MAF-550	Raising fixture for MA-550 T	499.99
MAF-770	Raising fixture for MA-770 T	599.99
MAF-850	Raising fixture for MA-850 T	729.99
MARB-40	Rotor base accessory for MA-40 T	869.99
MARB-550	Rotor base accessory for MA-550 T	979.99
MARB-770	Rotor base accessory for MA-770 T	1169.99
MARB-850	Rotor base accessory for MA-850 T	1379.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Woodlake, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

UNADILLA (See W2AU)

UNIDEN (UNI)

PC-68 Elite*	AM Mobile CB w/WX alert	$ 99.99
*$30 rebate from Uniden thru 12/31/09		
PC-68LTW*	AM Mobile CB w/WX alert	79.99
*$20 rebate from Uniden thru 12/31/09		
PC-68XL*	AM Mobile CB	74.99
*$20 rebate from Uniden thru 12/31/09		
PC-78 Elite*	AM Mobile CB w/WX alert	119.99
*$30 rebate from Uniden thru 12/31/09		
PC-78LTW*	AM Mobile CB w/WX alert	99.99
*$20 rebate from Uniden thru 12/31/09		
PC-78XL*	AM Mobile CB	94.99
*$20 rebate from Uniden thru 12/31/09		
PRO-510XL	AM Mobile CB	39.99
PRO-520XL	AM Mobile CB	54.99
PRO-538W	AM Mobile CB w/WX	59.99

UNIDEN BEARCAT

BC-340CRS	100 ch scanner w/SAME WX	$ 99.99
BC-350C	100 ch prog/service search w/AC ps	99.99
BC-370CRS	300 ch scanner/800/SAME WX	139.99
BC-898T	500 ch prog scanner/trunk/preprog D	209.99
BCD-996T	6000 ch prog/trunk/SAME WX/dig D	499.99
BCD-996XT	Prog scanner/trunk/SAME WX/dig	519.99
BCT-8	Preprog warning scan/800/trunk/AC ps	179.99
BCT-15X	Prog scanner/800/trunk	239.99
BC-72XLT	100 ch pocket scanner	99.99
BC-95XLT	200 ch prog pocket scanner/800	119.99
AD-70	Extra charger Δ	6.99
BBTY0356001	Extra battery for BC-296D Δ	4.99
BP-120	Extra battery; SC180B/SC200 Δ	9.99
BP-180	Extra battery for BC-245XLT Δ	16.99
BP-200	Extra battery for BC-200XLT Δ	26.99
BP-205	Extra battery for BC-100XLT Δ	19.99
UA-502	Cig power cord Δ	6.99
BC-346XT	Pocket scanner w/trunking	219.99

Uniden - continued

	AES Price
BADG0687001 DC cord	22.99
NC-246T Carrying case for BC-246T Δ	14.99
BCD-396T 3000+ch pocket/trunk/SAME/dig D	429.99
BCD-396XT Pocket scan/trunking/SAME/digital	519.99
BADG0687001 DC cord	22.99

MARINE

Atlantis-250 5w VHF marine handheld	$ 89.99
Voyager 5w VHF marine handheld/lith ion batt	149.99
Oceanus-DSC 25w 90 ch VHF marine Xcvr/DSC	129.99
Solara-DSC 25w 90 ch VHF marine Xcvr/DSC	89.99
UM-625C 25w VHF mar Xcvr/color TFT/hailer D	199.99

Unified Microsystems (UNM)

VK-64 CW/voice keyer	$219.99
KC-4 CW cable for VK-64 to transceiver	9.99
VKC-8 8-pin audio cable for VK-64 to Xcvr	24.99
XT-4 Small size CW memory keyer	69.99
KC-4 CW cable for XT-4 to transceiver	9.99
W9XT Contest card for IBM PC & compatible Δ	39.99
CCC-8 8pin mic contest card cable semi-kit Δ	4.99

Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum tower T	$403.99
9-30 9 sq ft wind load 30' alum tower T	532.99
12-30 12 sq ft wind load 30' alum tower T	682.99
21-30 21 sq ft wind load 30' alum tower T	810.99
23-30 23 sq ft wind load 30' alum tower T	1069.99
35-30 35 sq ft wind load 30' alum tower T	1235.99
4-40 4 sq ft wind load 40' alum tower T	678.99
7-40 7 sq ft wind load 40' alum tower T	828.99
9-40 9 sq ft wind load 40' alum tower T	919.99
12-40 12 sq ft wind load 40' alum tower T	1069.99
15-40 15 sq ft wind load 40' alum tower T	1196.99
21-40 21 sq ft wind load 40' alum tower T	1347.99
23-40 23 sq ft wind load 40' alum tower T	1604.99
4-50 4 sq ft wind load 50' alum tower T	927.99
5-50 5 sq ft wind load 50' alum tower T	1037.99
7-50 7 sq ft wind load 50' alum tower T	1166.99
9-50 9 sq ft wind load 50' alum tower T	1292.99
15-50 15 sq ft wind load 50' alum tower T	1714.99
16-50 16 sq ft wind load 50' alum tower T	1874.99
4-60 4 sq ft wind load 60' alum tower T	1310.99
6-60 6 sq ft wind load 60' alum tower T	1584.99
7-60 7 sq ft wind load 60' alum tower T	1696.99
9-60 9 sq ft wind load 60' alum tower T	1827.99
3-70 3 sq ft wind load 70' alum tower T	1692.99
4-70 4 sq ft wind load 70' alum tower T	2088.99
6-70 6 sq ft wind load 70' alum tower T	2107.99
7-70 7 sq ft wind load 70' alum tower T	2236.99
3-80 3 sq ft wind load 80' alum tower T	2239.99
4-80 4 sq ft wind load 80' alum tower T	2650.99
2-90 2 sq ft wind load 90' alum tower T	2756.99
B-14 Base for tower	93.99
B-18 Base for tower	93.99
B-22 Base for tower	133.99
B-26 Base for tower	164.99
Extra 14" stubs (between base & tower) .set	18.99
Extra 18" stubs (between base & tower) .set	35.99
Extra 22" stubs (between base & tower) .set	55.99
Extra 26" stubs (between base & tower) .set	55.99
RFM-11 Flat roof mt for guyed tower	58.99
RFM-14 Flat roof mt for guyed tower	60.99
RFM-18 Flat roof mt for guyed tower	96.99
RFM-22 Flat roof mt for guyed tower	121.99
RFM-26 Flat roof mt for guyed tower	161.99
R-11 Rotor mount	45.99
R-14 Rotor mount	65.99
R-18 Rotor mount	79.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

11 Top 11" top tower section T	132.99

Universal - continued

	AES Price
14 Top 14" top tower section T	167.99
18 Top 18" top tower section T	303.99
14 Taper 14" taper tower section T	147.99
18 Taper 18" taper tower section T	264.99
22 Taper 22" taper tower section T	394.99
26 Taper 26" taper tower section T	563.99
11 Straight 11" straight tower section T	131.99
14 Straight 14" straight tower section T	147.99
18 Straight 18" straight tower section T	264.99
22 Straight 22" straight tower section T	394.99
26 Straight 26" straight tower section T	563.99
HD35-40 35 sq ft wind load 40' alum tower T	1819.99
HD21-50 21 sq ft wind load 50' alum tower T	1943.99
HD9-60 9 sq ft wind load 60' alum tower T	2052.99
HD16-60 16 sq ft wind load 60' alum tower T	2484.99
HD21-60 21 sq ft wind load 60' alum tower T	2552.99
HD8-70 8 sq ft wind load 70' alum tower T	2304.99
HD12-70 12 sq ft wind load 70' alum tower T	2835.99
HD17-70 17 sq ft wind load 70' alum tower T	3124.99
HD21-70 21 sq ft wind load 70' alum tower T	3194.99
HD8-80 8 sq ft wind load 80' alum tower T	2970.99
HD9-80 9 sq ft wind load 80' alum tower T	3069.99
HD11-80 11 sq ft wind load 80' alum tower T	3471.99
HD12-80 12 sq ft wind load 80' alum tower T	3483.99
HD16-80 16 sq ft wind load 80' alum tower T	3702.99
HD4-90 4 sq ft wind load 90' alum tower T	3112.99
HD8-90 8 sq ft wind load 90' alum tower T	3613.99
HD11-90 11 sq ft wind load 90' alum tower T	4080.99
HD4-100 4 sq ft wind load 100' alum tower T	4060.99
HD8-100 8 sq ft wind load 100' alum tower T	4335.99
B-30 Base for HD tower	252.99
Extra 30" stubs (between base & tower) .set	85.99
RFM-30 Flat roof mt for guyed tower	222.99
30 Taper 30" taper tower section T	634.99
30 Straight 30" straight tower section T	634.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

1-5/8SC Flange bearing	102.99
2-3/16SC Flange bearing	114.99
Top Plate Flange plate welded to top section	27.99
1-1/4" OD x 5 ft aluminum mast T	25.99
1-1/4" OD x 10 ft aluminum mast T	40.99
1-1/2" OD x 10 ft aluminum mast T	49.99
2" OD x 8 ft aluminum mast	60.99
2" OD x 16 ft aluminum mast T	110.99

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VALOR (See PRO AM)

VANCO (VCO)

370052 3½ digit multimeter Δ	$ 9.99
CL-3 Extra heavy duty alligator clip leads (10)	9.99
SWR-1 SWR/field strength meter	29.99
SWR-3 Mini SWR meter	19.99

VECTRONICS (VEC)

DL-300M 300w 150MHz dummy load	$ 49.99
DL-650M 1.5kw 650MHz dummy load	79.99
DL-2500 2.5kw 150MHz dummy load	199.99
HFT-1500 1.5kw antenna tuner	439.99

Vectronics - continued

	AES Price
HPF-1 High pass filter, 75 or 300 ohms	24.99
HPF-2 Deluxe high pass filter, 75 or 300 ohms	34.99
LP-30 1.5kw low pass filter	89.99
LP-2500 2.5kw low pass filter	129.99
PM-30HF 300/3kw HF/6m wattmeter	89.99
PM-30UV 30/300w 2m/220/440 wattmeter	99.99
VC-300DLP 300w antenna tuner	169.99
VC-300M 300w mobile antenna tuner	129.99
121K Crystal radio set kit	19.99
131K Aircraft receiver kit	29.99
201K CW keyer kit	24.99
422K FM broadcast SCA decoder kit Δ	19.99
830K Super SSB audio filter kit	19.99
841K Tunable SSB/CW audio filter kit Δ	29.99
1140K 40m receiver kit	29.99
1240K 40m QRP CW transmitter kit	29.99
1290K AM radio transmitter kit	29.99

VELLEMAN (VEL)

AVM-2050 Analog sound level meter	$ 29.99
AVW-089 3 channel audio/video switcher	8.99
DVM-810 3½ digit digital multimeter	9.99
DVM-850BL Deluxe 3½ digit DMM w/holder	19.99
EL-301 30 in 1 electronic lab kit	39.99
EL-1301 130 in 1 electronic lab kit	89.99
EL-3001 300 in 1 electronic lab kit	129.99
K/TF 75-piece cable ties	2.99
SOLD-250GLF .55 lb lead-free solder, .04 dia	19.99
TLM-2 Test lead set w/banana plugs	2.99
TLM-10 Test probe set	6.99
VT-BT6 33-piece screwdriver bit set	6.99
VT-COAX Coax stripper; RG-58/59/62/6	14.99
VT-D2 Heavy duty desoldering pump	4.99
VT-HD03U 62-pc rechargeable precision drill set	24.99
VT-LAMP2BNU Hobby magnifier lamp w/table mt	49.99
VT-M468L Crimp tool for RJ-11/12/45	9.99
VT-SET 5-piece pliers	9.99
VT-SET3N 6-pc electronics screwdriver set	9.99
VT-SET21N 8-in-1 screwdriver set D	4.99
VT-TS 25-piece hobbyist tool set	9.99
ZL-388/7 3 LED dynamo bicycle flashlight Δ	9.99

VIBROPLEX (VIB)

100 Original Presentation Super deluxe bug	$269.99
105 Original Deluxe Bug	209.99
110 Original Standard Bug	179.99
113 VibroKeyer Gold Paddle Δ	249.99
115 VibroKeyer Deluxe Paddle	189.99
120 VibroKeyer Standard Paddle	159.99
123 Iambic Gold Paddle Δ	249.99
125 Iambic Presentation Paddle	269.99
130 Iambic Deluxe Paddle	199.99
135 Iambic Standard Paddle	159.99
145 Triangular Brass Racer Iambic paddle	149.99
150 Square Brass Racer Iambic paddle	149.99
155 Standard straight key	159.99
160 Deluxe straight key	189.99
165 Deluxe Hand key/Iambic Paddle double	349.99
170 Dlx Hand key/VibroKeyer Paddle double Δ	269.99
175 Standard Hand key/Iambic Paddle double Δ	239.99
180 Std Hand key/VibroKeyer Paddle double Δ	239.99
190 Square Racer Standard Iambic paddle	129.99
195 Blue Racer 2000 Std Millennium Bug	199.99
200 Code Warrior Junior Paddle	99.99
CP-3 Cord & plug for Iambic & Vibrokeyer	9.99

WA1FFL (WA1)

Ladder-Loc 450 ohm ladderline center attach	$ 12.99

W2AU (Unadilla) (W2A)

W2AU 1:1 160-10m balun, lightning arrestor	$ 26.99
W2AU 4:1 160-10m balun, lightning arrestor	26.99
W2AU Beam Balun, 1:1 HF balun	27.99
W2DU-HF 1:1 1.8-30 MHz choke balun	28.99
W2DU-VHF 1:1 30-250 MHz choke balun	28.99

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

W2AU - continued

	AES Price
W2DU Beam Balun 40-10m 1:1 HF choke balun	29.99
HA AN-sulator center insulator	11.99
HE END-sulator end insulators .....pair	6.99
KW-80CW Reyco 80m CW ant traps .....pair	52.99
KW-80F Reyco 75m phone ant traps .....pair	52.99
KW-60 Reyco 60m antenna traps .....pair	49.99
KW-40 Reyco 40m antenna traps .....pair	47.99
KW-30 Reyco 30m antenna traps .....pair	47.99
KW-20 Reyco 20m antenna traps .....pair	46.99
KW-17 Reyco 17m antenna traps .....pair	46.99
KW-15 Reyco 15m antenna traps .....pair	45.99
KW-12 Reyco 12m antenna traps .....pair	45.99
KW-10 Reyco 10m antenna traps .....pair	45.99
W2AU/W2VS 5-band ant kit (use tuner) .....Δ	85.99
W2AU/W2VS NoWire 5band ant kit (use tuner) less wire	78.99

W4RT (W4R)

KB-2 Cable for Ant Boss II w/LDG K-OTT .....D	$ .99
YB-2 Cable; Ant Boss II w/W4R YB-OTT ..... D	.99
Mini VNA Software defined antenna analyzer	399.99
OBF-703/718-DIY CW&SB Collins filts;IC703/718	249.99
OBF-817/ND-DIY CW & SSB Collins filts;FT-817	249.99
OBP-STD Speech compress; 817/47/57/97 handmic	49.99
OBP-UNIV Speech compress; IC706/FT100 handmic	49.99
OPF-Y-CW-300 300Hz CW filter;FT817/57/97/2000	119.99
OPF-CW 500Hz CW filter; FT817/57/97/2000	114.99
OPF-SSB 2.3KHz Collins SSB filter; FT817/57/97	134.99

W5YI (W5Y)

BCOM Basic Communications Electronics book	$ 19.99
BDIG Basic Digital Electronics book	19.99
BELC Basic Electronics book	19.99
ECS-08 Extra upgrade software w/manual	49.99
GROL Commercial license elements 1/3/8 manual	39.99
GRSP Commercial study software w/GROL book	69.99
GSTD Getting Started in Electronics book	19.99
GUS-07 General upgrade software w/manual	44.99
GW05/CD Gordon West 8 ea 0-5 wpm code CD's	39.99
GWCT Gordon West refresher code course CD's	14.99
GWEM-08 Gordon West Extra study manual	24.95
GWEW-08 Gordon West 6 ea Extra theory CD's	39.95
GWGM-07 Gordon West General study manual	20.95
GWGW-07 Gordon West 4 ea General theory CD's	29.95
GWTM-06 Gordon West Tech study manual	18.95
GWTW-06 Gordon West 4 ea Tech theory CD's	27.95
HOS-08 Ham operator software/ (all classes)	39.99
HOSB-08 Ham op soft/3 books (all classes)	94.99
Mini-1 Timer, op amp & optoelectronics	12.99
Mini-2 Science & communications	12.99
Mini-3 Electronic sensors	12.99
Mini-4 Electronic formulas, symbols & circuits	12.99
NCS-06 Technician software w/manual	39.99
TPG-07 Tech/General software/manuals/code	69.99
WWLG Worldwide Listening Guide	24.99

WAHL ISOTIP (WAH)

7740 Quick charge cordless soldering iron kit	$ 49.99
7971 30 minute butane soldering iron	25.99
7974 120 minute butane soldering iron	39.99

WELLER (WEL)

7200PK 75w soldering gun kit	$ 29.99
7235 Extra standard tips (2) for 7200PK	3.99
SP-23LK 25w soldering iron kit	17.99
WP-25 25w professional soldering iron	38.99
ST-4 3/16" screwdriver tip for WP-25	3.99
ST-5 1/32" single flat tip for WP-25	3.99
W-60P 60w temp controlled soldering iron	73.99
WESD51 50w adjustable soldering station	169.99
WSTA3 Pyropen portable LP soldering iron	124.99
WST2 Pyropen Jr. portable butane iron .....Δ	49.99
WTCPT 60w temp controlled soldering stn	149.99

West Mtn Radio (WES)

CBA-2 Computerized battery analyzer/software .D	$ 99.99

West Mtn - continued

	AES Price
CBA/TEMP Temperature probe for CBA-2 Δ	9.99
CLR/DSP ClearSpeech DSP noise reduction processor	219.99
CLR/SPKR ClearSpeech DSP noise reduction spkr	219.99
CS-1 COMspkr speaker system for ham station PC	39.99
PG-40S PWRgate backup power sys w/charger	139.99
RB/DU/CUSB Rigblaster Duo; 8-pin/RJ-45	349.99
RB/PR/CUSB Rigblaster Pro; 8-pin/RJ-45	299.99
RB/PL/CUSB Rigblaster Plus; 8-pin/RJ-45	159.99
RB/NO/CUSB Rigblaster nomic universal; 8pin/RJ45	59.99
FT100/CBL 3' cable; Yaesu RJ-45/6-wire	18.99
RB/PP* Rigblaster plug & play USB data/aux jack	119.99
*Call before ordering for proper configuration with radio	
CATMINI/CBL Yaesu rig control cbl for RB/PP	13.99
CIV/CBL Icom/TenTec rig control cbl; RB/PP	9.99
RPA/I8D Icom 8-pin DIN acc1 jack adapter	9.99
RPA/I13D Icom 13-pin DIN aux jack adapter	9.99
RPA/K13D Kenwood 13-pin DIN aux jack adapt	9.99
RR/4004/USBC Rigrunner USB 4QA 4outlet/cbl/conn	94.99
RR/4005/C Rigrunner 40A 5outlet/cbl/connectors	84.99
RR/4005H/C Rigrunner horizontal 5outlet/cbl/conn	84.99
RR/4008/C Rigrunner 40A 8outlet/cbl/connectors	119.99
RR/4008H/C Rigrunner horizontal 8outlet/cbl/conn	109.99
RR/4010S/C Rigrunner FET 9outlet/cbl/connectors	149.99
RR/4012/C Rigrunner 40A 12outlet/cbl/connectors	129.99
RR/8012/C Rigrunner 80A 12outlet/cbl/connectors	159.99
C30/PK/12 12-pair 30A PowerPole connectors	12.99
C45/PK/12 12-pair 45A PowerPole connectors	17.99
PWR/TOOL PWRcrimp PowerPole crimp tool	39.99
RT-1 Rigtalk USB rig control interface	54.99
CATMINI/CBL Yaesu cable for RT-1	13.99
CIV/CBL Icom/Ten-Tec cable for RT-1	9.99
WHAT/MTR Whattmeter watt/volt/amp/amp hr	74.99

Wiley Publishing (WIE)

GPS Dummies Gps for Dummies book	$ 21.99
HR for Dummies Ham Radio for Dummies book	21.99
WX for Dummies Weather for Dummies book	21.99

WILSON (WIL)

FGT-3/BLK 3' black figerglass CB whip .....Δ	$ 21.99
FGT-4/BLK 4' black figerglass CB whip .....Δ	23.99
FGT-4/WHT 4' white figerglass CB whip .....Δ	23.99
Little Wil Magnetic mt CB antenna .....Δ	39.99
Trucker 2000 Black mobile 3/8-24 CB whip .Δ	59.99
W-1000 Magnetic Black mobile CB antenna Δ	69.99
W-1000 Roof Top Black mobile CB antenna Δ	54.99
W-1000 Trunk Lip Black mobile CB antenna Δ	59.99

WINEGARD (WIN)

CX-0625 25' RG-6 TV coax w/F connectors	$ 16.99
CX-0650 50' RG-6 TV coax w/F connectors	24.99
CX-0675 75' RG-6 TV coax w/F connectors .D	29.99
CX-6100 100' RG-6 TV coax w/F connectors	34.99
HD-7010 9 el VHF/13 el UHF 66.5" bm HDTV ant	89.99
HD-7084P 28 el VHF/40 el UHF 131" bm HDTV ant	199.99
HD-9075P 26 el 60" boom UHF HDTV ant	99.99
HD-9095P 39 el 95" boom UHF HDTV ant	129.99
TV-2900 Outdoor TV matching transformer	6.99

YAESU (YAE)

FTDX-9000 Contest 200w HF/6m Xcvr ..DS Call/Web

FTDX-9000 Contest and installed accessories (DS) are drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

DMU-9000 Data management unit .....DS	1000.00
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	379.99
MH-31B8 Extra hand microphone	49.99
MTU-160/DS 160m MTU unit .....DS	433.99
MTU-30/20/DS 30/20m MTU unit .....DS	433.99
MTU-80/40/DS 80/40m MTU unit .....DS	433.99
RXU-9000 Dual receive unit .....DS	1700.00
VRF-9000 VRF unit for RXU-9000 (required) DS	189.99
SP-9000 Ext dual spkr sys/audio filts; D/Contest	369.99
TFT-9000 TFT display unit .....DS	1100.00

Yaesu - continued

	AES Price
YH-77STA Open-air type stereo headphones	59.99
FTDX-9000D Deluxe 200w HF/6m Xcvr ...DS	Call/Web

FTDX-9000D is drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	379.99
MH-31B8 Extra hand microphone	49.99
SP-9000 Ext dual spkr sys/audio filts; D/Contest	369.99
YH-77STA Open-air type stereo headphones	59.99
FTDX-9000MP Hi Power 400w HF/6m Xcvr DS	Call/Web

FTDX-9000MP and installed accessories (DS) are drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	379.99
MH-31B8 Extra hand microphone	49.99
MTU-160/DS 160m MTU unit .....DS	433.99
MTU-30/20/DS 30/20m MTU unit .....DS	433.99
MTU-80/40/DS 80/40m MTU unit .....DS	433.99
SP-9000 Ext dual spkr sys/audio filts; D/Contest	369.99
TFT-9000 TFT display unit .....DS	1100.00
YH-77STA Open-air type stereo headphones	59.99
FT-2000 100w HF/6m DSP Xcvr/ps	Call/Web
FT-2000D 200w HF/6m DSP Xcvr/ps	Call/Web
(W4R) **OPF-Y-CW-300** 300Hz Collins CW filter	119.99
(W4R) **OPF-CW** 500Hz Collins CW filter	114.99
CT-119 FT-2000 firmware upgrade cable	28.99
DMU-2000 Data management unit	Call/Web
FH-2 Remote keyboard	99.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	379.99
MH-31B8 Extra hand microphone	49.99
MTU-160 u-tuning kit A for 160m	Call/Web
MTU-80/40 u-tuning kit B for 80/40m	Call/Web
MTU-30/20 u-tuning kit C for 30/20m	Call/Web
SP-2000 External speaker w/audio filters	199.99
T-9101556 Rotor control to FT-2000 cable	25.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-950 HF/6m Xcvr/IF-DSP/tuner	Call/Web
(BET) **Yae Tune Control** for FT-950	44.99
CT-118 Control cable; FT-950 to Quadra	39.99
DMU-2000 Data management unit	Call/Web
DVS-6 Voice memory unit	69.99
FC-40 Automatic wire antenna tuner	299.99
FH-2 Remote keyboard	99.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	379.99
MTU-160 u-tuning kit A for 160m	Call/Web
MTU-80/40 u-tuning kit B for 80/40m	Call/Web
MTU-30/20 u-tuning kit C for 30/20m	Call/Web
SP-2000 External speaker w/audio filters	199.99
T-9101556 Rotor control to FT-950 cable	25.99
T-9023725 Extra DC cable	21.99
T-9207451 6.5' 10p DIN cbl; FT950/other amp	36.99
YH-77STA Open-air type stereo headphones	59.99
FT-450 Compact HF/6m Xcvr/IF-DSP	Call/Web
ATU-450 Internal coax auto antenna tuner	129.99
FT-450AT Compact HF/6m Xcvr/IF-DSP/tuner	Call/Web
(BET) **Yae Tune Control** for FT-450 series	44.99
CT-118 Control cable; FT-450 to Quadra	39.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
ATAS-120 HF/6/2/430 motorized mob ant †	299.99
ATBK-100 Antenna base kit; use w/base mt	89.99
FC-40 Automatic wire antenna tuner	299.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	379.99
MHG-1 Carrying handle	15.99
MMB-90 Mobile mounting bracket	39.99

Yaesu - continued — AES Price

T-9023725 Extra DC cable 21.99
T-9207451 6.5' 10p DIN cbl; FT450/other amp 36.99
YH-77STA Open-air type stereo headphones 59.99
FT-897D HF/6m/2m/430 port/base Xcvr/TCXO Call/Web
(BET) Yae Tune Control for FT-897 series ... 44.99
(W4R) OPF-Y-CW-300 300Hz Collins CW filter 119.99
(W4R) OPF-CW 500Hz Collins CW filter 114.99
(W4R) OPF-SSB 2.3KHz Collins SSB filter .. 134.99
FP-30 Internal power supply 219.99
ADMS-4B Windows prog software w/cable . 59.99
ATAS-120 HF/6/2/430 motorized mob ant † 299.99
ATBK-100 Antenna base kit; use w/base mt 89.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant 229.99
CT-39A Packet cable 11.99
CT-62 CAT interface cable 36.99
EDC-20 Extra DC cable 18.99
FC-30 Antenna tuner; bolts to FT-897 ..... 199.99
FC-40 Automatic wire antenna tuner 299.99
FNB-78 4.5ah NiMH batt (will accept 2) ... 119.99
CD-24 4-hr 12vdc charge adapter; FNB-78 119.99
PA-26B 110vac charger for CD-24 ..... 89.99
MD-100A8X Desk mic w/tone control 139.99
MD-200A8X Deluxe high fidelity desk mic . 379.99
MH-36E8J TTP mic 59.99
MH-59A8J Remote control TTP mic 79.99
MLS-100 Mobile speaker 49.99
MMB-80 Mobile mounting bracket 39.99
T-9023225 Extra DC cable 26.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner 169.99
YF-122C 500Hz Collins CW filter 169.99
YF-122CN 300Hz Collins CW filter 169.99
YF-122S 2.3KHz Collins SSB filter 169.99
YH-77STA Open-air type stereo headphones 59.99
FT-857D Mini HF/6m/2m/430 Xcvr/DSP ..... Call/Web
FREE YSK-857 with FT-857D!
(BET) Yae Tune Control for FT-857 series ... 44.99
(W4R) OPF-Y-CW-300 300Hz Collins CW filter 119.99
(W4R) OPF-CW 500Hz Collins CW filter 114.99
(W4R) OPF-SSB 2.3KHz Collins SSB filter .. 134.99
FP-1023 23A switching ps w/fan, 25A surge ... 169.99
FP-1030A 25A ps, 30A surge w/meters 269.99
ADMS-4B Windows prog software w/cable . 59.99
ATAS-120 HF/6/2/430 motorized mob ant † 299.99
ATBK-100 Antenna base kit; use w/base mt 89.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant 229.99
CT-39A Packet cable 11.99
CT-58 Band data cable; Yaesu amplifier ... 34.99
CT-62 CAT interface cable 36.99
EDC-20 Extra DC cable 18.99
FC-30 Antenna tuner 199.99
FC-40 Automatic wire antenna tuner 299.99
MD-100A8X Desk mic w/tone control 139.99
MD-200A8X Deluxe high fidelity desk mic . 379.99
MH-36E8J TTP mic 59.99
MH-59A8J Remote control TTP mic 79.99
MLS-100 Mobile speaker 49.99
T-9023225 Extra DC cable 26.99
TCXO-9 TCXO unit, 0.5 ppm 99.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner 169.99
YF-122C 500Hz Collins CW filter 169.99
YF-122CN 300Hz Collins CW filter 169.99
YF-122S 2.3KHz Collins SSB filter 169.99
YH-77STA Open-air type stereo headphones 59.99
YSK-857 Separation kit 69.99
FT-817ND 5w HF/6/2/430 Xcvr/FNB85/NC72B Call/Web
(W4R) OBF-817/ND-DIY CW & SSB Collins filts 249.99
(W4R) OPF-Y-CW-300 300Hz Collins CW filter 119.99
(W4R) OPF-CW 500Hz Collins CW filter 114.99
(W4R) OPF-SSB 2.3KHz Collins SSB filter .. 134.99
ADMS-4A Windows prog software w/cable . 59.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant 229.99
CSC-83 Soft case w/side pocket for FT-817 29.99
CT-39A Packet cable 11.99
CT-62 CAT interface cable 36.99

Yaesu - continued — AES Price

EDC-6 Extra DC cord; plug & wire only 8.99
FNB-85 9.6v 1400mah NiMH battery 59.99
MH-36E8J TTP mic 59.99
MLS-100 Mobile speaker 49.99
NC-72B Extra nicad wall charger 24.99
TCXO-9 TCXO unit, 0.5 ppm 99.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner 169.99
YF-122C 500Hz Collins CW filter 169.99
YF-122CN 300Hz Collins CW filter 169.99
YF-122S 2.3KHz Collins SSB filter 169.99
CT-61 Interface cable; FT-847 to amp .....Δ 15.99
FC-800 External long wire auto tuner .....Δ 299.99
FP-1023 23A switching ps w/fan, 25A surge 169.99
FP-1030A 25A ps, 30A surge w/meters 269.99
SP-8 External speaker w/filters; Mk V/Field ....Δ 169.99
T-9018320 DC cable; FT-840/847/Field .....Δ 29.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner 169.99
YA-30 1.8-30 MHz broadband dipole ant 249.99
YF-110SN 2KHz 3rd IF SSB filt;Mk V/Field ..Δ 99.99
YF-115C 500Hz CW Collins filt;FRG/MkV&Field Δ 119.99
YF-116A 6 KHz AM filter for FT-920 .....Δ 99.99
YH-77STA Open-air type stereo headphones . 59.99
Quadra System VL/VP1000 HF+6m amp/ps/tuner Call/Web
VR-500 Pack HH Rcvr w/FNB-79/NC-60B .. Call/Web
ADMS-3 Windows programming software .. 39.99
CSC-72 Soft carrying case for VR-500 ..... 19.99
EDC-5B DC adapter w/noise filter 26.99
EDC-6 DC adapter; plug & wire only 8.99
FNB-59 Nicad battery for VR-500 .....Δ 4.99
FNB-79 Nicad battery for VR-500 ..... 9.99
NC-60B Wall charger 16.99
VR-5000 .1M-2.6G base rcvr AM/FM/SSB/cell blkd Call/Web
DSP-1 DSP unit 119.99
DVS-4 Digital voice recorder 49.99
CA-34 Charger sleeve; NC-82/VR-120D .....Δ 1.99
CSC-76 Soft carrying case for VR-120/D ....Δ 6.99
EDC-15 DC adapter for VR120D .....Δ 14.99
FTM-10R 50w 2m/40w 440 FM Xcvr/int mic Call/Web
FTM-10SR 10w 2m/7w 440 FM Xcvr/int mic Call/Web
FREE MH-68B6J with FTM-10R/FTM-10SR!
Bluetooth Kit Kit w/BH-1/BU-1/CAB-1 ..... 149.99
CD-40 3 hour charger cradle for BH-1 ..... 24.99
NC-85B Battery charger for CD-40 ..... 18.99
CT-M10 20' separation cable 29.99
CT-M11 External after-market headset cable 29.99
FEP-4 Earphone for other ear with BH-1 ... 19.99
MEK-M10 Microphone jack 14.99
MH-68A6J Waterproof DTMF hand mic 59.99
MH-68B6J Waterproof 3-key hand mic 49.99
MLS-200-M10 Waterproof external speaker 39.99
MMB-M10 Multi-angle stand bracket 29.99
MMB-M11 Multi-angle handle bar bracket 29.99
YHA-M10 2m/440 0/3db 19.7" antenna 39.99
AMK-1 License plate bracket for YHA-M10 19.99
COX-2MM 6.6' coax cable for YHA-M10 .. 29.99
FT-7900R 50w 2m/45w 440 FM Xcvr ..... Call/Web
FREE YSK-7800 with FT-7900R!
ADMS-2K Windows programming software 39.99
CT-39A Packet cable 11.99
MLS-100 Mobile speaker 49.99
MMB-60 Quick release mobile mount 39.99
T-9021715 Extra DC cable 12.99
YSK-7800 Remote separation kit .....† 39.99
FT-8800R 50w 2m/35w 440 FM Xcvr ..... Call/Web
FREE YSK-8900 with FT-8800R!
ADMS-2I Windows programming software . 39.99
CT-39A Packet cable 11.99
MLS-100 Mobile speaker 49.99
MMB-60 Quick release mobile mount 39.99
T-9021810 Extra DC cable 12.99
YSK-8900 Remote separation kit .....† 39.99
FT-8900R 50w 10m/6m/2m/35w 440 FM Xcvr Call/Web
FREE YSK-8900 with FT-8900R!

Yaesu - continued — AES Price

ADMS-2H Windows programming software 39.99
CT-39A Packet cable 11.99
MLS-100 Mobile speaker 49.99
MMB-60 Quick release mobile mount 39.99
T-9021810 Extra DC cable 12.99
YSK-8900 Remote separation kit .....† 39.99
ADMS-2E Windows prog soft; FT-2600M/90R Δ 39.99
ADMS-2F Windows prog software; FT-1500M Δ 39.99
FT-1802M 50w 2m FM Xcvr w/WX .....D Call/Web
FT-1900R 55w 2m FM Xcvr ..... Call/Web
ADMS-1802 Windows prog software; FT-1802M Δ 39.99
MLS-100 Mobile speaker 49.99
T-9021715 Extra DC cable 12.99
FT-2800M 65w 2m FM Xcvr w/WX alert ....D Call/Web
FT-2900R 75w 2m FM Xcvr ..... Call/Web
ADMS-2J Windows prog software; FT-2800M Δ 39.99
MLS-100 Mobile speaker 49.99
S-8002051/MMB-83 Extra mobile bracket . 4.99
S-8101436 Extra DC cable 7.99
FP-1023 23A switching ps w/fan, 25A surge 169.99
FP-1030A 25A ps, 30A surge w/meters 269.99
HRI-100 WIRES II interface box 149.99
LF-1 Mobile 13A DC noise filter 29.99
MLS-100 Mobile speaker 49.99
VXR-7000VA/Vertex 50w 2m FM AC/DC rptr 1299.99
VX VPL-1 Repeater programming cables ... 87.99
Repeaters require service dept set-up; $45 minimum
ADMS-1H Windows prog software; VX-2R .. Δ 29.99
CLIP-10 Spring loaded belt clip; FT-50 .....Δ .99
CSC-73 Soft carrying case for VX-5R .....D 9.99
CSC-90 Soft carrying case for VX-2R .....Δ 6.99
FBA-17 AA battery holder; FT-23/411/470 ..Δ 19.99
FBA-20 Battery holder for VX-1R .....Δ 19.99
FBA-21 6-AA battery holder; FT-50RD .....Δ 39.99
NC-60B Wall charger for FT-10/50 ..... 16.99
Q-3000166 Replacement duck ant for VX-5R Δ 29.99
FT-60R 5w 2m/440 FM HT ..... Call/Web
ADMS-1J Windows programming software . 39.99
CN-3 BNC to SMA adapter 11.99
CT-27A Cloning cable 14.99
CT-44 2-pin spkr/mic adapter 14.99
EDC-5B DC adapter w/noise filter 26.99
EDC-6 DC cord; plug & wire only 8.99
FBA-25 6 AA cell battery case 20.99
FNB-83 7.2v 1400mah NiMH battery 35.99
MH-34B4B Speaker/mic 38.99
MH-37A4B Earpiece/microphone 40.99
NC-88B Extra wall charger 24.99
VAC-370 Rapid charger 79.99
VC-25 VOX headset 69.99
FT-250R 5w 2m FM HT ..... Call/Web
VX-150 5w 2m FM HT/16-key TTP .....D Call/Web
ADMS-1F Windows programming software 39.99
CN-3 BNC to SMA adapter 11.99
CT-27A Cloning cable 14.99
CT-44 2-pin spkr/mic adapter 14.99
CT-53 Packet cable 9.99
EDC-5B DC adapter w/noise filter 26.99
EDC-6 DC cord; plug & wire only 8.99
FBA-25 6 AA cell battery case 20.99
FNB-83 7.2v 1400mah NiMH battery 35.99
LCC-150/TT Leather case 29.99
LCC-150S/TT Leather case w/swivel 34.99
MH-34B4B Speaker/mic 38.99
MH-37A4B Earpiece/microphone 40.99
NC-72B Extra wall charger for VX-150 ..... 24.99
VC-25 VOX headset 69.99
FT-270R 5w 2m FM HT ..... Call/Web
VX-177 5w 440 FM HT/16-key TTP ..... Call/Web
ADMS-VX170 Win prog soft; VX-170/FT-270R 39.99
ADMS-VX177 Windows prog software; VX-177 39.99
CD-26 Charger cradle 30.99
CN-3 BNC to SMA adapter 11.99

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Yaesu - continued

	AES Price
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	35.99
MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic ††	49.99
NC-88B Extra wall charger	24.99
VAC-370 Rapid charger	79.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-3R 1.5w 2m/1w 440 submini HT/lith ion	Call/Web
ADMS-VX3 Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CSC-92 Soft carrying case	15.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-21 DC adapter	39.99
FBA-37 3 AA cell battery case	20.99
FNB-82LI Extra 3.7v 1000mah lith ion batt	38.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
VC-25 VOX headset	69.99
VX-6R 5w 2m/440/1.5w 220 FM HT	Call/Web
ADMS-VX6 Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CN-3 BNC to SMA adapter	11.99
CSC-91 Soft carrying case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1400mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic ††	49.99
NC-72B Extra wall charger	24.99
SU-1 Altitude/barometric pressure sensor	34.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-7R Silver 5w 6m/2m/440/300mw 220 FM HT	Call/Web
VX-7RB Black 5w 6m/2m/440/300mw 220 FM HT	Call/Web
ADMS-1G Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CN-3 BNC to SMA adapter	11.99
CSC-88 Soft carrying case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1400mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic ††	49.99
NC-72B Extra wall charger	24.99
Q-3000185 Replacement duck ant	29.99
SU-1 Altitude/barometric pressure sensor	34.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-8R 5w 6m/2m/440/1.5w 220 FM HT	Call/Web
ADMS-VX8 Windows programming software	69.99
BTK-4 Bluetooth kit;BH1A/BU1/CD40/NC85B	189.99
BU-1 Bluetooth radio adapter	79.99
CD-40 3 hour charger cradle for BH-1	24.99
NC-85B Battery charger for CD-40	18.99
CD-41 Rapid charger cradle	39.99
CN-3 BNC to SMA adapter	11.99
CSC-93 Soft carrying case	15.99
CT-131 Microphone adapter	32.99
CT-134 Cloning cable	39.99
CT-136 GPS antenna adapter	32.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-39 3 AA cell battery case	29.99
FEP-4 Earphone for other ear with BH-1A	19.99
FGPS-2 GPS antenna unit	79.99

Yaesu - continued

	AES Price
FNB-101LI 7.4v 1100mah lith Ion battery	59.99
FNB-102LI 7.4v 1800mah lith Ion batt; GPS use	79.99
MH-74A7A Waterproof speaker/mic	49.99

ANTENNA ROTORS

G-450A 10 sq ft antenna rotor/5-wire	$259.99
G-550 12 sq ft elevation rotor/6-wire	289.99
G-800SA Med/hvy duty 450 degree 17sq ft/5-wire	339.99
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	399.99
G-1000DXA HD 450 degree 23sq ft/presets/6-wire	499.99
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	1089.99
Note: G-2800DXA comes w/40m (131') of rotor cable	
G-5500 11 sq ft azimuth/elevation rotor//2x6-wire	599.99
GC-038 Mast clamp; G-450/800/1000/5500	39.99
GC-048 Mast clamp; G-2800	49.99
GL-33 Mast adjustment plate	18.99
GS-050 50mm thrust bearing; mast 1¼-2"	34.99
GS-065 65mm thrust bearing; mast 1½-2½"	54.99
GS-232B Computer interface; DXA rotors	589.99
C-1000 Interface cable; GS-232A/B - SDX/G5500	34.99
GS-680U Universal self-adjusting mast bearing	89.99
Sep Kit Separation kit for G5500	29.99

See JSC or Belden for rotor cable

CLOSE-OUTS

ALI DJ-496T 5w 440 FM HT	$149.99
ALI DJ-X3T .1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	159.99
ALI DJ-X7T .1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	159.99
ALI DJ-X30T .1-1299MHz receiver/cell blocked	189.99
ALI DJ-X2000T .1-2149MHz receiver/cell blocked	499.99
ALI EDX-2 160-10m 200w wire auto tuner	269.99
AME PT-3 2-54 MHz transceiver preamp	99.99
ANX FG-1440/FM-2 2m 92" fg unity N base/mt	69.99
ANX FG-4403/FM-2 440-450 44" fg 3db N base/mt	79.99
AOR ARD-9800 Digital SSB/SSTV interface	349.99
AOR LA-380 .01-500MHz indoor active loop rcv ant	299.99
B&W BWD-20 14-30 MHz 20' folded dipole	239.99
B&W BWD-45 7-30 MHz 45' folded dipole	229.99
CMT SB-15 6m/2m/440 0/4.5/7.2db 58" chr mob	74.99
CRO AN-124 250 feet No. 12	79.99
CRO AN-126 500 feet No. 12	139.99
CRO AN-128 1000 feet No. 12	199.99
CUS LAC-4H 2kw SO-239 gas tube arrestor	69.99
CUS LAC-4NH 2kw type N gas tube arrestor	69.99
DCI 223.5-3H 222-225 200w bandpass filter	129.99
DIA G-200 2.4GHz 11db 6' N base antenna	99.99
DIA HF-50CX 6m 3.5db 71" mobile antenna	89.99
DIA SX-1100 1.8-160/430-1300MHz 200w PEP mtr	214.99
ESP ESP-1 Microphone audio processor	129.99
GAR cfQue-1620 GPS module for Pocket PC's	69.99
GAR GPS-18USB Dlx GPS sensor; laptop/USB/mag/soft	89.99
GAR iQue-3600 Handheld PDA/integrated GPS	249.99
GAR Rino-120 GPS/FRS/GMRS/8mb mem/basemap	119.99
GRU G-5 Portable AM/FM/SW receiver w/ps	139.99
HEI HCL-4 Classic 1930's desk mic/studio el & HC-4	99.99
HEI HCL-5 Classic 1930's desk mic/studio el & HC-5	99.99
HEI HCL-iC Classic 1930's desk mic/studio el; Icom	99.99
HEI HQP Quiet Phone Noise cancelling headphones	79.99
ICO AH-2B extra **whip only**	79.99
ICO AH-7000 25-1300 MHz discone/50'coax	189.99
ICO BC-119-N11 Nicad/NiMH desk cgr (use adapt)	69.99
ICO BC-119-N21 Nicad/NiMH desk cgr; T81A	69.99
ICO IC-756PRO III Xcvr/6m/IF-DSP/tnr/kyr	Call/Web
PS-125 included with IC-756PROIII purchase until gone!	
ICO IC-91AD 5w 2m/440 D-Star compatible HT	Call/Web
RS-91 included with IC-91AD purchase until gone!	
ICO ID-800 55w 2m/50w 440 FM DStar ready Xcvr	Call/Web
CS-D800 included with ID-800 purchase until gone!	
ICO OPC-598 23' extension cable; AT-180	69.99
ICO PCR-1500-25 PC control Receiver/cell blkd	Call/Web
Bon CS4.5 included with PCR-1500-25 purchase until gone!	
ICO PCR-2500-25 Advanced PC ctl Rcvr/cell blkd	Call/Web
Bon CS4.5 included with PCR-2500-25 purchase until gone!	
KEN SO-2 TCXO unit; TS-570D/S	179.99
KEN SP-950 Ext spkr/audio filters; TS-950SDX	159.99

Close-Outs - continued

	AES Price
KEN YK-88C-1 500 Hz CW filter; TS-570D/S	119.99
KEN YK-88CN-1 270 Hz CW filter; TS-570D/S	119.99
KEN YK-88SN-1 1.8 KHz SSB filter; TS-570D/S	129.99
KNT VK-1 Vail Correspondent straight key	149.99
KOS QZ/2000 Active noise reduction stereophone	69.99
LDG AT-200PC 160-6m 5-250w/100w 6m PC ctl tuner	149.99
LDG DM-7800 Dual 4.5" meters for IC-7800	169.99
MFJ 1214PC Multimode interface for IBM	79.99
MFJ 442 SlimLine keyer/Bencher combo	99.99
MFJ 624D 8p phone patch w/audio VU meter	99.99
MIR D-15N 430 FM/SSB/ATV 2/15w type N amp	99.99
MIR D-26N 440 FM/SSB 2/60w type N amp	169.99
MSQ 2M-4-Port-PD 2m 4-port N pwr divider	89.99
MSQ 2M-CP22 2m 12.5db 11h/11v 18'6"bm circ	249.99
MSQ 222-7EZ 220 9.8db 7el 5' 8" boom	89.99
MSQ 222-7WL 220 16.4db 23el 32'5" boom	199.99
OUT OB-8 75-10m 300w PEP 6' 8-band mob ant	279.99
OUT OB-M 75/40/20/17/10m/HF marine 300w PEP 6'	349.99
OUT OB-S8 75-10m 300w PEP split ant/bag	269.99
PLY CS112-100 100' 1½" copper strap	119.99
PLY PLDO-120US15A 120v 15A power protector	119.99
RCA RP-7887 Super Radio AM/FM port Rcvr	59.99
UNI BC-898T 500 ch prog scanr/trunk/preprog	209.99
UNI BCD-396T 3000+ch pocket/tnk/SAME/dig	429.99
UNI BCD-996T 6000 ch prog/trunk/SAME WX/dig	499.99
UNI UM-625C 25w VHF mar Xcvr/color TFT/hailer	199.99
VIB 113 VibroKeyer Gold Paddle	249.99
VIB 123 Iambic Gold Paddle	249.99
VIB 170 Dlx Hand key/VibroKeyer Paddle double	269.99
VIB 175 Std Hand key/Iambic Paddle double	229.99
VIB 180 Std Hand key/VibroKeyer Paddle double	229.99
WES CBA-2 Computerized batt analyzer/software	99.99
YAE FC-800 External long wire auto tuner	299.99
YAE FT-1802M 50w 2m FM Xcvr w/WX	Call/Web
YAE FT-2800M 65w 2m FM Xcvr w/WX alert	Call/Web
YAE SP-8 External speaker w/filters; Mk V/Field	169.99
YAE VX-150 5w 2m FM HT/16-key TTP	Call/Web
YAE YF-110SN 2KHz 3rd IF SSB filt;Mk V/Field	99.99
YAE YF-115C 500Hz CW Collins filt;FRGMkV&Field	119.99
YAE YF-116A 6 KHz AM filter for FT-920	99.99

SAVE $$$ on...

USED demo

Open Carton GEAR

Current list available at

www.aesham.com

ALINCO
AMATEUR RADIO'S VALUE LEADER™

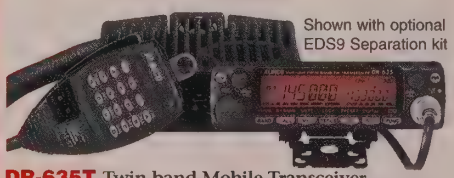
6M & 10M MOBILES

Common Features: 100 alphanumeric memory channels, VFO/Memory/Program scan with Busy/Timed settings and Tone scan. Tone squelch (Encode/Decode tone separately selectable), DCS, DTMF tones featuring 10 programmable memories (Auto-Dialer) and 4 tone-burst tones. Direct frequency input and control of major functions via the backlit microphone keypad. Time-out-timer; Auto-power-off; Busy-channel lockout; Theft alarm; Ignition key on/off feature (with optional cable). Cloning cable included. Dim: 5.85"w x 1.57"h x 6.83"d, 2.21 lbs.

DR-06T 6M FM Transceiver – Covers 50 to 53.995 MHz. Power: 50W (High), 20W (Mid), 5W (Low). With the optional EJ-41U TNC board, the DR-06T can be instantly switched from voice to 1200/9600bps packet. 13.8VDC @ 11A..... **$279.99**

DR-03T 10M FM Transceiver – Looks like the DR-06T. Covers 28 to 29.695 MHz. Power: 10W (High), 5W (Mid), 1~4W (Low). 12VDC @ 3A..... **$279.99**

Available Accessories for DR-06T Only:
EDC37 Key ON/OFF cable, **EDC43** Key ON/OFF cable for cigar socket, **EJ41U** TNC board, **EJ47U** Digital Voice modem


Shown with optional EDS9 Separation kit

DR-635T Twin band Mobile Transceiver
TX: 144-147.995 and 430-449.995 MHz; RX: 108-173.995 and 335-480 MHz includes VHF AM Air Band and FM (87.5-108 MHz), 200 alpha memories. (VHF) 50/20/5W and (UHF) 35/20/5W. Dual band RX (V/V, U/U, V/U & U/V) with cross-band repeat. Three color LCD shows status icons and alphanumeric tags. CTCSS & DCS encode/decode, 4 tone bursts. Auto power off, time out timer, tone burst, scan, lock-out, dimmer, VFO auto program, theft alarm, narrow FM, voltage display and remotable head. Rear cooling fan. Advanced Digital Mode (10F3) with speech compression with the optional EJ-47U board. The supplied DTMF hand microphone allows setting parameters an direct frequency entry. Includes DC cable, mobile mounting bracket with hardware, anti-theft (ACC on/off) cable and anti-theft sticker..... **$399.99**

Available Accessories:
EDS9 Separation kit, **EJ47U** Digital board, **EJ50U** TNC unit, **ERW4** PC cable, **ERW7** USB PC cable, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable, **SW620** Windows prog. software

VHF & UHF MOBILES

DR-135TMKIII 2M Mobile Transceiver – Covers 144–148 MHz transmit with 118–135.995 MHz (AM aircraft) & 136–173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with ± 2.5ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF mic; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC; 13.8V DC @ 11A.
Dim: 5.58"w x 1.57"h x 6.83"d; 2.3 lbs... **$189.99**

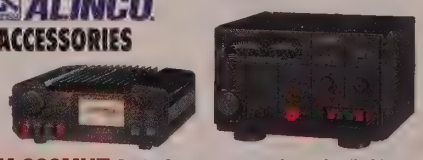
DR-135TPMKIII – Same as 135TMKIII with addition of the TNC for 1200/ 9600bps packet and APRS operation..... **$299.99**

DR-235TMKIII – 222–224.995 MHz TX & 216-279.995 MHz RX; 25W/10/5W out..... **$279.99**

DR-435TMKIII – 430–450 MHz TX & 350-511.995 MHz RX; 35/10/5W output..... **$289.99**

Available Accessories:
EDC37 DC cable, **EDC43** Cigarette lighter cable, **EJ41U** 1200/9600 TNC (TMKIII's only), **EJ47U** Digital board, **ERW4** PC cable, **ERW7** USB PC cable, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable, **SW620** Windows programming software

ALINCO ACCESSORIES



DM-330MVT Switching Power Supply (left)
Small, lightweight but provides 30A cont., 32A peak with variable voltage (5-15 VDC). Lighted V/A meter. Rear panel high current terminals and front panel cigar and quick disconnect terminals.
Dim: 6.8"w x 2.6"h x 6.5"d, 4.4 lbs. **$199.99**

DM-340MVT Conventional Power Supply (right)
Provides 30A continuous, 35A maximum at 50% duty cycle with variable voltage (0-25 VDC). Forced-air cooled; Separate Volt and Amp meters; Large 16mm main terminals plus 2 pairs of auxiliary snap-in terminals, cigar socket and fuse holder on the front panel.
Dim: 9.25"w x 6"h x 9"d, 20.7 lbs..... **$219.99**

DJ-G7T 2M/440/1.2 GHz FM Handheld – The DJ-G7T brings full duplex operation across any two of this feature packed tri-bander's bands to offer a communications experience you have only dreamed about. It tunes 0.530-1299.995 MHz continuously (cellular blocked) with 1000 memories and scanning. There's a backlit keypad and alphanumeric display for simple operation and memory management. It is ergonomically designed to fit the palm of your hand. 5W on 2M, 4.5W on 440 (5W @ 13.8 VDC) and 1W on 1.2 GHz output with the standard high-capacity Li-Ion 1200mAh battery. You're ready for virtually any selective calling situation or gaining access to repeaters with 39-tone CTCSS, 104 DCS, Tone-bursts and DTMF encoding, all included at no extra cost. Wire cloning capbility. Comes with: flexible SMA antenna, EBP-73 Li-Ion battery pack, EDC-173T Drop-in trickle charger. Dim: 2.36"w x 4.53"h x 1.18"d; 9.5 oz. **$349.99**

Available Accessories:
EBP73 7.4V 1200mAh Lith-Ion battery, **EDC36** Cigarette cable w/filter, **EDC43** Cigarette cable with charger, **EDH35** "4" AA Battery case, **EDS10** Mic/speaker conversion cable, **EDS11** Cloning cable, **EMS62** Speaker mic, **ERW4** PC Interface Serial RS232C Cable, **ERW7** PC Interface USB Cable, **ESC50** Soft case

DJ-175T 2M FM Handheld
Low cost, but sets new standards in features, convenience and ease of operation. Enjoy 136 to 173.995 MHz receive coverage with 200 memories, and scanning. There's a backlit keypad and alphanumeric display for simple operation and memory management. Ergonomically designed to fit the palm of your hand. A 5-Watt output battery is standard. You're ready for virtually any selective calling situation or gaining access to repeaters with 39-tone CTCSS, 104 DCS, Tone-bursts and DTMF encoding, all included at no extra cost. Wire cloning capbility. Comes with: flexible SMA antenna, EBP-72 NiMH battery pack, EDC-146 wall adapter and EDC-165 NiMH drop-in trickle charge stand.
Dim: 2.28"w x 4.23"h x 1.43"d; 8.7 oz. **$99.99**

Available Accessories:
EBP71 Li-ion Battery Pack (7.4V 1200 mAh), **EBP72** Ni-MH Battery Pack (7.2V 700 mAh), **EDC164T** Li-Ion Drop-In Trickle Charger, **EME12** Headset with PTT/VOX/earphone, **EME13** Headset with PTT/VOX/earbud, **EME15** Tie pin VOX mic/earphone, **EME6** Earphone, **EMS47** Speaker Mic with Volume Control, **ERW4** PC Interface Serial RS232C Cable, **ERW7** PC Interface USB Cable, **ESC49** Soft case

MFJ LOW POWER TRANSCEIVERS

SINGLE BAND CW

Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever your go. Hot superhet receiver with super-quiet FET post amp stage in the IF filter for great sensitivity. Excellent selectivity from the tight CW bandwidth crystal ladder filter that fights QRM and noise. Smooth and stable VFO with reduction drive and RIT. Full 5W power output. Semi-QSK operation with adjustable hold T/R switching or set for full QSK. Built-in 3 inch. speaker. Low power drain, only 50mA on RX and 1.2A peak on TX. Dim: 2.5"h x 6.5"w x 6"d; 2 lbs.

Four different models:

9015 – 15M, 5W .... **$199.99** **9030** – 30M, 5W **$199.99**
9020 – 20M, 5W .... **$199.99** **9040** – 40M, 5W **$199.99**

SINGLE BAND SSB

Easy operation, reduction drive analog VFO allows tuning the band for signals quickly, then zeroing in smoothly. Features Constant Current™ syllabic speech processing for an added 4–6dB advantage to cut through conditions. Low noise preamp and active double balanced mixer front end with a sharp 2.3 kHz SSB crystal ladder filter. Draws only 3 Amps from 12V supply or battery. TVI protection with a built-in lowpass filter; Real S-meter; Hand Microphone; Amplifier key jack. Dim: 2.5h" x 6.5"w x 6"d; 2 lbs.

Six different models:

9402X 2M, 7W .... **$269.99** **9420X** 20M, 20W.. **$259.99**
9406X 6M, 10W.. **$269.99** **9440X** 40M, 12W.. **$249.99**
9410X 10M, 20W . **$269.99** **9475X** 75M, 12W. **$249.99**

See Page 16 in the Price Guide under MFJ for available accessories for these models

The World is Yours with ALINCO

DR-135T/TP MKIII (2m),
DR-435T MKIII (440 MHz),
DR-235T MKIII (222 MHz)
Mobile/Base

DR-135 includes AM Airband RX. All models have 100 memories, ignition key on/off, theft alarm, large 7 character alpha display, optional internal TNC can be used for packet or APRS™, 9600 packet mode, front data/GPS input, rear DSUB9 connector, H/M/L power out, autodialer, CTCSS and DCS encode+decode, backlit mic, *Extra rugged!* Accepts optional digital voice communications board.

DJ-596T MKII
2m+440 HT

100 memories, alpha channel labels, NiMH battery, CTCSS and DCS encode+decode, WFM+NFM, theft alarm, 6 ~ 16 VDC input, illuminated keys and display, autodialer, full coverage of both bands, Expanded receive; optional digital voice communications board and more! *Extend your abilities!*

DJ-C7T
2m+ 440 "Pocket" HT

Meet the "new generation" mini-HT! Internal speaker with great audio, 200 memories, VFO, Memory & Scan modes, CTCSS encode+decode, AM airband RX, wideband FM broadcast, 300mw output, SMA antenna port, Lithium ion battery, cloning feature, split function and more! *Extremely versatile dual-band HT.*

DM-330MVT Communications Grade Switching Power Supply

Alinco's Experts have reinvented the power supply! Extremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. *Extra versatile, use for travel, station or test bench.*

DJ-S45T 440 MHz "Micro" HT

Tiny, but tough. Rugged polycarbonate design resists impacts, dust & moisture. Features New Quick Repeater Access Mode, 100 memories; any mix of simplex or repeater channels, CTCSS encode and decode (separately programmable). Computer programmable with optional cable, free software at www.alinco.com.

DJ-V5TH, 2m/440 HT*

Great 2m/440 TX & RX, extended RX range from 76 ~ 999 MHz, wide band FM, alpha display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, split-band ops, auto-dialer, 13.8 VDC direct input. *Excellent performer!*

DX-70TH (100w) HF+6m
Mobile/Base/Portable

Special Order

160~6m Amateur band TX in all modes, Extra coverage RX from 150 KHz~30 MHz and 50~54 MHz. Remotable face, 100 memories, 2 VFOs, speech compressor, SSB, CW and AM narrow filters, fullbreak-in, multi-function control and MUCH more! *Optional accessories include EDX-2 wire antenna tuner & DM-330MVT power supply.*

DJ-G7 2M/440/1200 MHz

Get ready for 1200 MHz! Full duplex operation of any two bands. Twin "user assignable" controls with easy to use knobs for adjusting AF output and Squelch levels. Large LCD full dot matrix screen with easy to see and understand display. Internal VOX and IPX7 compatible water resistant body.

DJ-V17T 2M HT
DJ-V27T 222 MHz HT
DJ-V47T 440 MHz HT

Rugged design resists moisture, dirt and dust!

Great audio and high grade water-resistant design! Full power HTs with large 40mm internal speaker, rugged polycarbonate body compatible to IPX7, 500mW max audio-output, over 200 memories, ergonomic design, ultra-flexible antenna with SMA connector, 39 CTCSS settings two-level split function, two-level attenuator, backlit alphanumeric display and special battery- drain function to help avoid battery memory-effect. Ni-MH standard; also uses optional Lithium-ion and NiMH battery packs or AA dry cell case. Perfect for outdoor activities.

DM-340MVT
IC Regulated Power Supply

30A nominal, 35A peak output. Variable output 0 ~ 15 VDC, convenient front-panel connections includes high current terminals, cigar lighter (10A) and quick-connect (5A). Built-in circuit protection, convenient front-panel fuse.

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ALL warranty claims and requests for repair/technical assistance for Alinco products should be sent to Ham Distributors, regardless of contact information found on the warranty certificate packed with the product.

ALINCO

AMATEUR RADIO'S VALUE LEADER™

LOW POWER 2M HANDHELD

DJ-S11T Miniature 2M FM HT – Covers 144–148 MHz transmit; 340mW output; 20 multi-function regular memories and 1 call memory; CTCSS tone encoder and decoder; Illuminated display; Pivoting antenna. Uses 3 "AA" alkaline or NiCad batteries; Comes with wrist strap, antenna and belt clip.
Dim: 3.9"h x 2.2"w x 1"d; 6.5 oz. **$89.99**

Available Accessories:
EME12 Headset/earphone/mic w/VOX, **EME13** Headset/earbud/mic w/VOX, **EME15** Ear-phone/mic w/VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic w/volume control, **ESC27** Soft case

SINGLE BAND HANDHELDS

DJ-V17T 5W 2M FM Handheld – Covers 144-148 MHz with 130-173.995 receive and 200 memories. Ruggedly built to IPX7 standards (can be submersed in 3 ft. depth of water for up to 30 minutes). 5W output; back-lit alphanumeric display and direct keypad frequency entry; 39 Tone CTCSS Squelch; 104 Tone Digital Code Squelch (DCS); 4 Tone Bursts; 9 DTMF Autodial Memories; Scanning; Time-out Timer. Tuning steps: 5, 10, 12.5, 15, 20, 25 and 30 kHz. A 500mW audio amp provides abundant audio. Comes with AC charger adapter, Ni-MH battery and SMA flexible antenna, belt clip and hand strap.
Dim: 2.28"w x 4.33"h x 1.43"d, 9.9 oz.... **$149.99**

DJ-V27T 5W 220 MHz FM Handheld – Similar to the DJ-V17T above, but covers 222-224.995 MHz with 216-249.995 MHz receive. Power: 5W..... **$179.99**

DJ-V47T 4.5W 440 MHz FM Handheld – Similar to the DJ-V17T above, but covers 430-449.995 MHz with 410-470 MHz RX. Power: 4.5W. **$169.99**

Available Accessories:
EBP63 7.4V 1100mAh Li-Ion battery, **EBP64** 7.4V 1600mAh Li-Ion battery, **EBP65** 7.2V 700mAh NiMH battery, **EBP66** 7.2V 2000mAh NiMH battery, **EDC144** Rapid charger, **EDC36** Cigarette lighter cable with filter, **EDC37** DC cable, **EDC43** Cigarette lighter cable, **EDH34** Dry cell case, **EDS10** Mic/speaker cable, **EDS11** Clone cable, **EME12*** Headset/earphone/mic with VOX, **EME13*** Headset/earbud/mic with VOX, **EME15*** Earphone/mic with VOX, **EME20*** Tie-pin mic/earphone, **EME6*** Earphone, **EMS47** Speaker mic with volume control, **EMS62** Speaker/mic, **ERW4*** PC cable, **ERW7*** USB PC cable, **ESC41** Soft case
* requires EDS10

DJ-S45T 440MHz FM HT Rugged polycarbonate design is resistant to rain, dirt and dust. TX: 420-450 MHz; RX: 420-474 MHz. 100 memories and three types of Scan functions (VFO, Memory, Tone) with timed and busy settings. Three different Tone Burst tones. Thirty-nine separately selectable CTCSS encode and decode tones, Tone Call and Bell (pager). Power Output: 2W with 6.0V external DC power source, approx. 1W with special order EBP-60 Li-Ion pack, approx. 0.5W with 2 Alkaline AA cells and approx. 0.4W with 2 Ni-MH rechargeable AA cells. The low power TX position gives approx. 0.5W at 6.0Vdc and approx. 150mW at 2 AA Ni-MH cells. Back-lit, Easy-to-Read LCD display. Computer-programmable with free software downloadable from Alinco website (with optional ERW-4 or ERW-7 cable). Includes belt clip, handstrap, AA battery case and flexible SMA antenna.
Dim: 2.24"w x 3.86"h x 1.17"d; 5.7 oz. ... **$139.99**

Available Accessories:
EME12 Headset/earphone/mic with VOX, **EME13** Headset/earbud/mic with VOX, **EME15** Earphone/mic with VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic with volume control, **ERW4** PC Cable, **ERW7** USB PC cable, **ESC40** Soft case

DUAL BAND HANDHELDS

DJ-596T MK II 2M/440 MHz Dual Band FM HT Covers 144-148/420-450MHz transmit and 136-174/400-512 MHz receive. 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; CTCSS/DCS encode and decode; Three scan modes; Illuminated keys and display; 100 alpha memories and 9 autodial memories; Operates on 6-16VDC, battery charges while on external source.
Dim: 4.9"h x 2.2"w x 1.6"d; 11oz..... **$239.99**

Available Accessories:
EBP50N 9.6V 700mA 5W NiMH battery, **EBP51N** 9.6V 1500mA 5W NiMH battery, **EBP56N** 7.4V 1000mAh lith-ion battery (do not charge using radio - must use EDC111), **EDC111** Charger for EBP56N, **EDC133** NiMH quick charger, **EDC36** Cigarette lighter cable with filter, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC88** Rapid charger for NiCads, **EDC93** Wall charger with power supply, **EDH30** Dry cell battery case, **EJ47U** Digital board, **EME12** Headset/earphone/mic with VOX, **EME13** Headset/earbud/mic with VOX, **EME15** Earphone/mic with VOX, **EME20** Tie-pin mic/earphone, **EME25** Curled cord earphone, **EME6** Earphone, **EMS47** Speaker mic with volume control, **ERW4** PC cable, **ERW7** USB PC cable, **ESC36** Soft case for EBP48N, **SW596** Windows programming software

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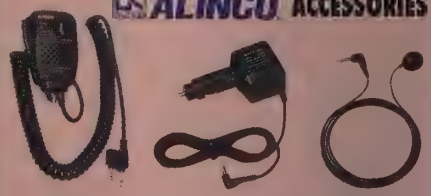
DJ-C7T Credit Card Size 2M/440 MHz FM Dual Band Micro Handheld – TX/RX: 144-147.995, 430-449.995 MHz. RX: FM broadcast (87.5-107.995 MHz), AM aircraft (108-173.995) and 380-511.995 MHz. AM/FM/WFM modes. Power: 300mW with supplied 3.7V Lithium-ion battery or 500mW with external 6V power source. 200 memory channels; 5 pairs of program scan band; Priority watch; 3 types of scan including CTCSS tone search; Split-operation; CTCSS encode and decode; Internal speaker, SMA antenna port; Mic/earphone/DC jacks; Cable cloning.
Dim: 2.3"w x 3.8"h x 0.57"d; 3.6 oz. **$189.99**

Available Accessories:
EBP58N Lithium-ion battery, **EDH32** Cigarette lighter cable, **EME18** Earphone, **EME24** Earphone/microphone, **EME25** Curl cord earphone, **EMS60** Speaker/microphone, **ERW4** PC cable, **ERW7** USB PC cable, **ESC38** Soft case

DJ-V5TH
5W 2M/440 MHz FM HT Standard high-power 700 mAh NiCad battery pack – up to 5W output; 3 output settings; Expandable receive range 76-999 MHz (cellular blocked); Split-band operation capability; Eight different tuning steps; Alphanumeric display; 200 memory channels plus two call channels; CTCSS encode and decode; DTMF squelch; 4 scan modes and 5 programmable scan banks; Auto-dial memories; SMA connector; Wire cloning capable.
Dim: 4.5"h x 2.25"w x 1.75"d; 13 oz..... **$239.99**

Available Accessories:
EBP46N 9.6V 600mAh 5W NiCad battery, **EDC36** Cigeratte power cable with filter, **EDC37** 13.8V power cable, **EDC43** Cigarette power cable, **EDC93** Wall charger, **EDH29** Dry cell battery case, **EME12** Headset/earphone/mic with VOX, **EME13** Headset/ear bud/mic with VOX, **EME15** Earphone/mic with VOX, **EME20** Tie-pin mic/earphone, **EME25** Curled cord earphone, **EME6** Earphone, **EMS47** Speaker mic with volume control, **ERW4** PC cable, **ERW7** USB PC cable

ALINCO ACCESSORIES



EMS-47 EDC-36 EME-6

EMS-47 Speaker Mic with Volume Control Speaker Mic with Volume Control for most current Alinco Handhelds..... **$29.99**

EDC-36 Car Cigarette Lighter Power Cord w/Filter – Supplies 12 VDC in the car for the Alinco DJ-V17T, DJ-V27T, DJ-V47T, DJ-596T MKII, DJ-V5TH & DJ-G7T handhelds. ... **$29.99**

EME-6 3.5mm Mono Earphone – Standard 3.5mm Mono Sound Earphone. Can be used in thousands of audio items like radios, scanners, even MP3 players. **$14.99**

ICOM HF BASE STATION

IC-718 HF All Band Transceiver – Perfect for beginners or backup rig. Covers 160–10M with 0.03–30 MHz RX in SSB, CW, RTTY and AM modes. 100W (40W AM); 101 memories; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/RF meter; High frequency stability; Flexible filter selection; Hand mic. included; 13.8VDC @ 20A.
Dim: 9.4"w x 3.75"h x 9.4"d; 8.5 lb. ... **CALL/WEB**

Available Accessories:
BET 706TUNECONT Better RF tune control, **AH2B** Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF+6M auto coax antenna tuner, **CR338** High stability crystal, **CT17** Level converter, **FL222** 1.9 kHz 455 kHz IF SSB filter, **FL257** 3.3 kHz 455 kHz IF SSB filter, **FL52A** 500 Hz 455 kHz IF CW filter, **FL53A** 250 Hz 455 kHz IF CW filter, **MB23** Carrying handle, **MB5** Mobile mount, **OPC025D** DC cable, **OPC598** 23' extension cable (AT180), **OPC599** 7+8-pin-13-pin adapter, **PS125** 25A switching supply, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters, **SP5** Mobile speaker, **UT102** Voice synthesizer, **NIF MMIC718** Nifty Mini Manual, **W4R OBF703718DIY** CW & SSB Collins Filters

HF/6M BASE STATION

IC-756PRO III HF/50 MHz All Mode Transceiver
Retains many of the popular PROII features, including: 32 bit floating DSP with 24-bit AD/DA converter; 51 types of settable pass bandwidths; Soft and sharp filter shapes to suit operation or band condition; RTTY demodulator/decoder; AGC loop management; Real time spectrum scope, and 5 in. color TFT display. New features and performance improvements include: Improved 3rd order intercept point of +30dBm; 5 MHz band standard (USA version); Same "Mini-scope" function adopted from the IC-7800; SSB transmit bandwidth which can be adjusted for both high and low band; Improved BPF and 1st filter reduces distortion; Pre-amp changed to a noiseless feedback type to reduce 2nd order distortion; Saturation characteristics of mixer and surrounding circuits improved; Clock function displaying local time, UTC time; Screensaver. Dim: 13.3"w x 4.3"h x 11.2"d; 21 lbs... C/O **CALL/WEB**

Available Accessories:
BET IMATE Better RF accessory, **AH2B** Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **CT17** Level converter, **OPC025D** DC cable, **PS125** 25A switching power supply, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters, **UT-102** Voice Synthesizer, **NIF MMIC756PRO3** Nifty Mini Manual

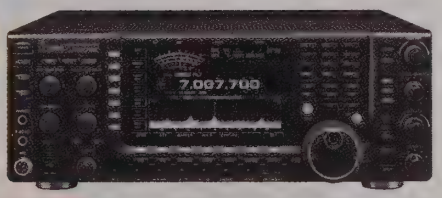
HF/6M/2M BASE STATION

IC-746PRO HF/VHF All Mode Transceiver
Covers 160–10M + 6M + 2M with 0.03–60 MHz, and 108–174 MHz RX. 100W output all bands; 32-bit floating DSP and 24-bit AD/DA converter; AGC loop management; IF filter width and shape variable; All mode signal modulation/demodulation; RTTY demodulator and decoder; Digital twin PBT capability; 100 memories (10 "memo pad"); PSK-31; Built-in HF-6M automatic antenna tuner; Two antenna connectors for HF/6M; IF-DSP noise reduction, auto notch and selectable audio peak filters; Noise blanker; Spectrum scope; Twin passband tuning; Triple band stacking register; Two-step preamp; RF speech compressor; Tone squelch/scan; VOX; SmarTune™ variable speed tuning; Auto repeater offset; CW pitch control; QSO serial number generator; Transmit audio monitor; Up/down frequency mic; Requires 13.8V DC @ 20A.
Dim: 11.3"w x 4.7"h x 12.5"d; 19.6 lbs.
PS-125 Included with purchase..... **CALL/WEB**

Available Accessories:
BET IMATE Better RF accessory, **AH2B** Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **CR338** High stability crystal unit, **CT17** Level converter, **OPC025D** DC cable, **PS125** 25A switching power supply, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters, **UT102** Voice synthesizer, **NIF MMIC746PRO** Nifty Mini Manual

Please call/web for current prices & promotions.

HIGH-END HF/6M BASE STATIONS



IC-7700 HF/50 MHz Transceiver – Top-performance, closely related to the IC-7800. Designed to be the Ultimate Contest Transceiver, employing the latest technology for the competitive edge. Two independent IC-7800-type DSP units: one for the transmitter and receiver and one for the spectrum display. Uses a single HF receiver with I/Q second mixer, offering a +40dBm 3rd-order intercept point, ultra-wide dynamic range and selectable 15, 6 and 3 kHz roofing filters. Automatic tracking preselector and relay-switched front end for strong-signal HF performance and out-of-band interference rejection. Push-pull MOS-FET amplifiers work at 48VDC, providing 200W output at full duty cycle. Built-in switch-mode power supply. The 7 inch wide color TFT LCD, 800 x 480 display shows a multi-function spectrum scope and a simulated analog multi-function meter. VGA socket for external video monitor. A built-in RTTY/PSK31 modem provides a complete digimode terminal, requiring only an external keyboard. Rear-panel I/O connections and CI-V allow use of a second Icom transceiver. Digital voice recorder. DSP noise blanker. USB memory drive socket.
Dim: 16.7"w x 5.9"h x 17.1"d; 52.9 lbs. **CALL/WEB**

Available Accessories:
BET IMATE Better RF message accessory, **CT17** Level converter, **HM36** Scanning hand mic, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP23** Speaker with audio filters, **NIF MMIC7700** Nifty Mini Manual

IC-7600 HF/50 MHz Transceiver – Covers the HF ham bands plus 6 meters; receives 30 kHz - 60 MHz. It utilizes Icom's IF-DSP technology and features selectable roofing filters and dual 32-bit DSP chips. Wide 104dB dynamic range and +30dbm 3rd order intercept point. Color 5.8 in. display. Dual frequency watch. RTTY/PSK31 encoder/decoder. PBT, RIT, XIT, keypad, 24 hour clock-timer, 101 memories, multiple scan modes, voice recorder and synthesizer. Dual USB ports. TCXO. Mechanical and FET relay control. RX-in/out antenna ports. Dim: 13.37"w x 4.5"h x 11.2"d, 25 lbs. **CALL/WEB**

Available Accessories:
AH2B Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **CT17** Level converter, **PS126** Power supply, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP23** Speaker w/audio filters, **NIF MMIC7600** Nifty Mini Manual

IC-7800 HF/50 MHz Transceiver – The Icom flagship radio with cutting-edge digital technology. Covers the HF ham bands plus 6 meters; receives 30 kHz - 60 MHz. It incorporates four separate 32-bit floating point DSP chips, a 7 inch wide TFT display, RTTY/PSK31 RX/TX and compact flash card technology. Offers a +40dBm intercept point with ultra wide dynamic range. Two independent receiver circuits and a separate preamp and mixer for 6 meters. There are four primary antenna inputs plus provisions for two receive antennas. The transmitter section uses push-pull 48-Volt MOSFET amplifiers than provide 200W output at 100% duty cycle on all bands. Built-in switching power supply. Includes 64MB CF memory card and rack mount handles.
Dim: 16.6"w x 5.9"h x 17.1"d; 55 lbs....**CALL/WEB**

Available Accessories:
BET IMATE Better RF message accessory, **CT17** Level converter, **HM36** Scanning hand mic, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP20** Speaker w/audio filters, **SP23** Speaker w/audio filters

IC-7200 HF/50MHz Portable Transceiver
Rugged design for outdoor use. Provides 2-100W output (SSB,CW, RTTY) and 1-40W (AM). Features: Easy-to-use controls; IF DSP filtering (51 passband widths); Digital IF filter, twin passband tuning (PBT), noise reduction, noise blanker and RF speech compressor. Manual notch filter; Keypad entry; Dual VFOs; Voice synthesizer; 201 memories; 20 dB attenuator; RIT; VOX; Scanning. USB port for PC control. Not totally waterproof, but front panel buttons & knobs are protected against water intrusion. Dim: 9.5"w x 3.3"h x 11"d; 12.1 lbs... **CALL/WEB**

Available Accessories:
AH2B Mobile antenna, **AH4** Auto antenna tuner, **AT180** HF/6M Auto antenna tuner, **CT17** CI-V Level converter, **MB116** Front panel handles, **MB117** Carry handle, **MB118** Mobile mounting bracket, **OPC1457** Extra DC cable, **OPC598** 23' extension cable for AT-180, **OPC599** 7/8 to 13 Pin cable adapter, **PS126** Power supply, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP10** Slim-line external speaker, **SP20** Speaker w/audio filters, **SP23** Speaker w/audio filters

HF/6M QRP RADIO

IC-703 PLUS HF QRP Transceiver – For home, shack, mobile DXing and in the field. Covers 160-10M + 6M in SSB/CW/RTTY/AM/FM modes. Power: 10W @ 13.8VDC and 5W @ 9.6VDC. Similar to the IC-706 series, but HF + 6M without 2M/440 MHz. Built-in, relay-type automatic HF antenna tuner; 105 memories; Memory keyer; Large capacity external battery pack and antenna options.
Dim: 6.5"w x 2.w"h x 7.875"d; 4.4 lbs. **CALL/WEB**

Available Accessories:
AH2B Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **AH703** 40/20/15/10/6 20W 4.6' antenna, **CT17** Level converter, **FL222** 1.9kHz 455kHz IF SSB filter, **FL257** 3.3kHz 455kHz IF SSB filter, **FL52A** 500Hz 455kHz IF CW filter, **FL53A** 250Hz 455kHz IF CW filter, **HM154T** TTP mic, **LC156** Back pack carrying case, **MB120** Mounting base, **MB62** Mounting bracket for main unit, **MB63** Mounting bracket for control panel, **MB72** Carrying handle, **OPC1229** Extra DC cord, **OPC1248** IC703 to PS125 cable, **OPC581** 11.5' separation cable, **OPC587** 16' separation cable, **OPC589** 8-pin mic jack adapter cable, **OPC599** 7+8-pin–13-pin adapter, **OPC742** 13-pin cable, **RMK706** Remote mounting kit, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP10** Slim-line external speaker, **UT102** Voice synthesizer, **W4R OBF703718DIY** CW & SSB Collins Filters

HF/VHF/UHF MOBILES

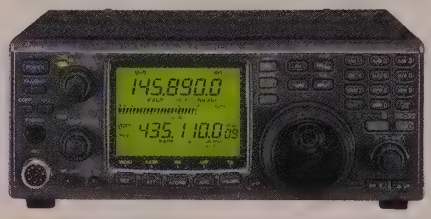
IC-706 MK II-G Compact HF/VHF/UHF All Mode – Covers 160–10M + 6M, 2M and 70cm; with broadband 0.03–200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160–6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; 13.8V DC @ 20A.
Dim: 6.6"w x 2.3"h x 7.9"d; 5.5 lbs.
RMK-706 Included with purchase..... **CALL/WEB**

Available Accessories:
BET 706TUNECONT Better RF tune control, **AH2B** Whip with mount, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF+6M auto coax antenna tuner, **CR282** Stability crystal, **CT17** Level converter, **FL100** 500 Hz 9 MHz IF CW filter, **FL101** 250 Hz 9 MHz IF CW filter, **FL103** 2.8 kHz 9 MHz IF SSB filter, **FL223** 1.9 kHz 9 MHz IF SSB filter, **FL232** 350 Hz 9 MHz IF CW/RTTY filter, **HM154T** TTP microphone, **LC156** Back pack carrying case, **MB120** Mounting base, **MB62** Mounting bracket for main unit, **MB63** Mounting bracket for control panel, **MB72** Carrying handle, **OPC025D** DC cord, **OPC581** 11.5' separation cable, **OPC587** 16' separation cable, **OPC589** 8-pin mic jack adapter cable, **OPC598** 23' extension cable for AT180, **OPC599** 7+8-pin–13-pin adapter, **OPC742** 13-pin cable, **PS125** 25A switching power supply, **RMK706** Remote mounting kit, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP10** Slim-line external speaker, **UT102** Voice synthesizer, **NIF MMIC706MKIIG** Nifty mini manual, **W4R OBPUNIV** Speech compressor

IC-7000 All band Multimode Mobile Transceiver Covers HF/6M/2M/440 MHz with .03-199 MHz RX; 503 alpha memories; Power: 100W (HF+6M), 50W (2M), 35W (440 MHz). 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. 2.5 inch (diagonal) color TFT screen. Supports a two-mode band scope; An internal memory keyer provides four memories; Detachable control head (requires optional separation cable); 503 memories; Digital RF Speech Processor; S/PWR/SWR meter; RIT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; DTMF memory; VOX, Full break-in CW with adjustable pitch. Comes with backlit remote mic, spare fuses, key plug and DC power cable. 13.8VDC @ 22A. Dim: 6.56"w x 2.59"h x 7.09"d; 5.1b..... RMK-7000 Included **CALL/WEB**

Available Accessories:
BET 7000SCDRCONT Better RF screwdriver antenna controller, **BET 7000TUNECONT** Better RF tune control, **AH2B** 40-6M whip with mount (use tuner), **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF-6M auto coax antenna tuner, **CT17** Level converter, **HM154T** TTP Mic., **LC156** Back pack carrying case. **MB105** Remote head bracket, **MB106** Carry handle, **MB120** Mounting base, **MB62** Main unit mounting bracket, **OPC1443** 11.5' remote cable, **OPC1444** 16' remote cable, **OPC1457** DC cable, **OPC589** 8-pin mic jack adapter cable, **OPC598** 23' extension cable; AT180, **OPC599** 7+8-pin to 13-pin adapter, **OPC742** 13-Pin cable, **PS126** Power supply, **RMK7000** Remote mounting package (MB62/MB105/OPC1443), **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP10** Slim-line external speaker, **NIF MMIC7000** Nifty mini manual, **RTS WCS7000** Programming software & serial cable (For USB add **RTS RTS03** Serial to USB cable)

VHF/UHF DUAL BAND BASE STATION



IC-910H VHF/UHF All-Mode – With the optional 1200 MHz module installed, it becomes an SSB/CW/FM tribander. Covers 144-148, 430-450 and 1240-1300 MHz (optional). Output: 5-100W (2M), 5-75W (440 MHz), 10W (1.2 GHz optional); Memories: 99 regular, 1 Call, 6 Scan edges (per band) and 10 Satellite; Large 3.5 in. multi-function LCD display, 10-key direct frequency entry keypad; Satellite mode support; Simultaneously works 2 bands in receive and full duplex; CW full support; Versatile scanning functions; Memory pad; 50 tone CTCSS encode; Speech compressor; One-touch & Auto repeater offset; IF shift; VOX; 13.8V DC @ 23A.
Dim: 9.5"w x 3.6"h x 9.4"d; 10 lbs. .... **CALL/WEB**

Available Accessories:
AG25 2M mast mount preamp, **AG35** 430 mast mount preamp, **CR293** High stability crystal unit, **CT17** Level converter, **FL132** 500 Hz main RX CW filter, **FL133** 500 Hz sub-band RX CW filter, **MB23** Carrying handle, **MB5** Mobile mount, **PS125** Power supply, **SM20** Electret desk mic, **SM50** Dynamic desk mic, **SP10** Slim-line ext. speaker, **UT102** Voice synthesizer, **UT106** DSP unit, **UX910** 10W 1.2 GHz module

SINGLE BAND MOBILE

IC-V8000 2M FM Transceiver – Big 75W power output. Covers 144–148 transmit with 136-174 MHz receive. 207 alpha memory channels including one call and six scan edge channels; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Selectable Green or Amber display; Includes remote control microphone.
Dim: 5.9"w x 2"h x 5.9"d; 2.22 lbs. .... **CALL/WEB**

Available Accessories:
CSV8000 Windows software, **OPC1132** 9.8' DC cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker, **UT108** DTMF decoder unit, **V8000MMB** Mobile bracket, **NIF QRICV8000** Nifty quick reference card, **RTS WCSV8000** Programming software & serial cable (For USB add **RTS RTS03** Serial to USB cable)

DUAL BAND MOBILE

IC-208H 2M/440 Dualband Mobile – Covers 144-148 and 440-450 TX with 118-173, 230-549, 810-999 MHz (cell blocked) wide band RX. Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alpha memory channels; Improved Dynamic Memory Scan (10 banks), 2–100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control microphone included.
Dim: 5.56"w x 1.56"h x 7.3"d; 2.7 lbs. **CALL/WEB**

Available Accessories:
CS208 Windows cloning software, **MB120** Mounting base, **MB28H** Mobile bracket, **MB58** Remote controller bracket, **OPC1132** 9.8' DC cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **OPC601R** 23' separation kit, **SP10** Slim-line external speaker, **NIF QRIC208H** Nifty quick reference card, , **RTS WCS208** RT Systems programming software & serial cable (For USB add **RTS RTS03** Serial to USB cable)

Please call/web for current prices & promotions.

ICOM

SINGLE BAND MOBILE

IC-2200H 2M FM Transceiver with D-Star Capability – A rugged design with a large selectable Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Power levels: 65, 25, 10 or 5W; Choice of FM/Narrow mode; 207 alpha memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCS encode/decode plus tone scan functions and "pocket beep"; 24 DTMF autodial memories; Squelch delay; NMEA GPS compatible (GPS not supplied). Includes remote control mic, DC power cable, mobile mounting bracket & mic hanger. Dim: 5.5"w x 1.56"h x 5.25"d; 2.75 lbs. **CALL/WEB**

Available Accessories:
CS2200H Windows™ software, **MB28H** Mobile bracket, **OPC1132** 9.8' DC cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Ext. Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker, **UT108** DTMF decoder unit, **UT118** D-Star Digital unit, **NIF QRIC2200H** Nifty quick reference card, **RTS WCS2200** RT Systems programming software & serial cable (For USB add **RTS RTS03** Serial to USB cable)

DUAL BAND MOBILE

IC-2820H 2M/440 Analog Dual Bander with D-Star and GPS Capability – Covers 144-148 and 430-450 MHz with wideband receive (Left Band) 118-549.95 / (Right Band) 118-173.995, 375-549.995 and 810-990.990 MHz (cellular blocked). V/V and U/U simultaneous receive, 522 memory channels. Weather Alert. Power: 50/15/5W out on both bands. Built-in CTCSS/DCS Encode/Decode, PC compatibility. Removable front panel, selectable amber/green display. Two antenna jacks support diversity reception in the 127, 136, 146, 375, 440 and 500 MHz bands (two antennas required). Diversity compares signal strength from the two antennas, and automatically selects the strongest signal to hear. **D-STAR** upgradeable and DV (digital voice) with the optional UT-123. Packet ready (9600 BPS – 6-pin DIN). Includes the full-function backlit HM-133 remote DTMF hand microphone, mounting bracket, power cord and spare fuses. Supplied with separation cables.
Dim: 5.9"w x 1.65"h x 7.4"d; 3.3 lbs... **CALL/WEB**

Available Accessories:
CS2820 Windows cloning software, **MB120** Mounting base, **OPC1132** 9.8' DC cable, **OPC1529R** Data communications cable, **OPC347** 23' DC cable, **OPC440** 16.4' Mic extension cable, **OPC441** 16.4' Speaker ext. cable, **OPC474** Radio to radio clone cable, **OPC478** PC RS-232 cable, **OPC478U** PC USB cable, **OPC589** 8-PIN mic. jack adapter cable, **SP10** Slim-line external speaker, **UT123** D-Star DV & GPS receiver, **V8000MMB** Mobile bracket, **NIF MMIC2820H** Nifty mini manual, **RTS WCS2820** Programming software & serial cable (For USB add **RTS RTS03** Serial to USB cable)

D-STAR READY DUAL BAND MOBILE

ID-880H FM & D-Star Ready 2M/440 Dual Bander – Can transmit and receive D-Star format digital voice and approximately 950 bps data communication simultaneously with analog FM mode still available. Your GPS position data is shown on the display and can be sent to other station with 3rd party GPS receiver (not included). The GPS A mode assists in D-PRS mode operation to send your position information to an APRS server. Has wideband receive of 118-173.995, 230-549.995 & 810-999.995 (cell blocked) so you can listen to aviation, marine, weather channels and other utility communications. Three power settings: 55/15/5W (2 meters), 50/15/5W (440 MHz); 1052 memory channels with 8-character channel name; 16 channels DTMF memory (24-digit); Built-in CTCSS/DTCS tone encoder and decoder (FM mode only) with tone scan and pocket beep function; Data & 9600/1200bps packet jacks on the rear main unit; Large LCD display allows you to select green, yellow and amber as the backlighting. Detachable control head with separation cable; Control head has magnets on the rear panel, it allows the controller to attach to the main unit or other metal objects.
Dim: 5.9"w x 1.56"h x 7.84"d; 2.9 lbs... **CALL/WEB**

Available Accessories:
MB120 Mounting base, **OPC1132** 9.8' DC cable, **OPC1529R** Data communications cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic. extension cable, **OPC441** 16.4' speaker extension cable, **OPC474** Radio to radio clone cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker

ID-800 Previous version of the ID-880H
2M/440 Dual Bander FM & D-Star Ready. Three power settings: 55/15/5W (2M), 50/15/5W (440 MHz) 500 Alpha memories..... C/O **CALL/WEB**

1.2 GHZ D-STAR RADIO

ID-1 10W 1.2 GHz FM & D-Star Ready Mobile
The D-Star system provides not only digital voice (DV mode) communication but also digital data transmission (DD mode). It can exchange various data files such as graphics, images, etc, at 128kbps. In DD mode, the ID-1 can transfer data directly with another ID-1 without the use of a repeater. This is useful for establishing a simple network where a D-Star repeater does not exist or D-Star services are not required. Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes 100 alphanumeric memories; 10/1W selectable power output; In FM mode the ID-1 has CTCSS tone squelch and pocket beep functions for quiet stand-by; Full PC control via USB port and 10 BASE-T ethernet that is used for 128K data operation.
Dim: (main unit) 5.56"w x 1.56"h x 6.53"d; (control head) 5.9"w x 1.97"h x 1.94"d; 3 lbs. ... **CALL/WEB**

Available Accessories:
MB28H Mobile bracket, **OPC1132** 9.8' DC cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic. extension cable, **OPC441** 16.4' Speaker extension cable, **SP10** Slim-line ext. speaker

D-STAR READY DUAL BAND HTs

IC-80AD FM & D-Star Ready Dual Band HT Transmit Coverage: 144-148 and 420-450 MHz. Wideband Receive Coverage: 0.495-999.990 MHz cellular blocked. 1052 memory channels including 50 program scan and 2 call channels. Weather channel with weather alert. Four selectable output power levels 5/2.5/0.5/0.1W. When using the optional HM-189GPS GPS Speaker microphone, the IC-80AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. The GPS-A mode assists in easy D-PRS system operation. Improved user interface.
Dim: 2.3"w x 4.06"h x 1.34"d; 0.6 lb.. **CALL/WEB**

Available Accessories:
AD92SMA SMA - BNC adapter, **BC139** Desk rapid charger, **BP216** (2) AA battery case, **BP217** 7.4V 1300mAh lithium-ion battery, **CP19R** Cigarette cable with filter, **HM131** Speaker/mic/earphone jack/clip, **HM189GPS** Speaker mic with GPS unit, **HM75A** Remote control mic, **HS85** Headset with VOX, **LC163** Carrying case, **MB86** Swivel belt clip, **OPC1529R** Data communications cable, **OPC254L** Right angle mini DC power cable, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS-232 cable, **OPC478U** PC USB cable, **SP13** Earphone

IC-92AD Submersible FM & D-Star Ready Dual Band HT – Transmit Coverage: 144-148 and 420-450 MHz. Wideband Receive Coverage: (VFO-A) 0.495-823.990, 849-868.990 and 894-999.990 MHz; (VFO-B) 118-174 and 350-470 MHz. Cellular blocked. 1304 memory channels including 100 program scan and 4 call channels. Weather channel with weather alert. Dualwatch capability allows receive on two bands simultaneously (including the same band). 5 Watts output with four selectable power levels. When using the optional HM-175GPS GPS Speaker microphone, the IC-92AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. The GPS-A mode assists in easy D-PRS system operation. Military tough, submersible to 1 meter for 30 minutes.
Dim: 2.3"w x 4.4"h x 1.3"d; 0.7 lb..... **CALL/WEB**

Available Accessories:
AD92SMA SMA - BNC adapter, **BC177** Desk rapid charger, **BP256** 7.4V 1620mAh lith-ion, **BP257** AA battery case, **CP19R** Cigarette cable with filter, **HM131** Speaker/mic/earphone jack/clip, **HM174** Waterproof Speaker/mic, **HM175GPS** Waterproof speaker/mic/GPS unit, **HM75A** Remote control mic, **HS85** Headset with VOX, **LC168** Carrying case, **OPC1797** Plug adapter cable for use with the HM75A, HM131, HS85 & OPC474, **OPC254L** Mini DC power cable, **OPC474** Radio-to-radio clone cable, **RS92** Remote control PC software (RS-232 cable), **SP13** Earphone, **NIF MMIC92AD** Nifty mini manual & reference card combo

Please call/web for current prices & promotions.

ICOM

SINGLE BAND HTS

IC-V8 SPORT 2M FM HT None easier to use! Covers 144-148 MHz; 5.5W output; 100 easy to recall alphanumeric memories; Scans 40 channels per second; Personalized scanning ranges; Up/Down & Rotary controls; CTCSS/DTCS encode/decode; Tone scan; PC programmable to set-up parameters; Acoustical design for best audio; Full-sized input keypad; Durable polycarbonate front panel and aluminum die-cast chassis built to MIL specs. Comes with AA battery case. Dim: 2.13"w x 5.2"h x 1.4"d; 12.3 oz. **CALL/WEB**

Available Accessories:
AD101 Battery adapter for BP211 and BC119N01, **AD9411** Adapter cup for BC119N01, **BC119N01** Desk charger, **BC144N** Rapid Desk Charger, **BP208N** Battery case, **BP209N** 7.2V 1100mAh 5.5W battery, **BP210N** 7.2V 1650mAh 5.5W battery, **BP222N** 7.2V 600mAh 5.5W battery, **CP17L** Right angle cigarette cable for charger, **CSV8** Cloning software, **HM128L** Earphone + mic, **HM158L** Rectangle speaker/mic/earphone jack/clip, **HM46L** Slim-line speaker mic with right angle plug, **HM54** Heavy-duty speaker mic, **HM75A** Remote control mic, **HS51** Headset/VOX, **HS94** Earpiece headset, **LCF3GSWIVEL** Leather case with swivel, **MB103** Spring loaded belt clip for N-Series battery, **MB74N** Spring loaded belt clip, **MB86** Swivel belt clip, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **OPC515L** Right angle DC cable for charger, **SP13** Earphone, **UT108** DTMF decode unit, **VS1L** Right angle VOX-PTT unit for HS94, **NIF QRICV8** Nifty quick reference card

IC-V85 2M Handheld Covers 144-148 MHz with extended receive 136 to 174 MHz and up to 7W output. 107 memory channels including 6 scan edge and 1 CALL. Multiple scanning modes, 16 DTMF memory channels. Built-in CTCSS/DTCS Encode and Decode. Weather channel alert, backlit alphanumeric display, repeater lockout, auto-repeater function, time-out timer and auto-power off. Easy-to-use ergonomic controls. Pager/DTMF decode function available with optional UT-108. Dim: 2.2"w x 4.34"d x 1.35"d; 12.5 oz. ..... **CALL/WEB**

Available Accessories:
BP226 Battery case, **BP227** 7.2V 1700mAh lith-ion battery, **CP19R** Cigarette cable w/filter, **CSV85** Cloning software, **HM128L** Right angle earphone & mic, **HM158L** Right angle speaker/mic/earphone/clip, **HM75A** Remote control mic, **HS85** Headset w/VOX, **HS94** Ear-piece headset, **LC167** Carrying case, **OPC474** Radio-to-radio clone cable, **OPC478U** PC USB cable, **SP13** Earphone, **UT108** DTMF decoder unit, **VS1L** Right angle VOX-PTT unit

Please call/web for current prices & promotions.

SINGLE BAND HT

IC-V82 2M High Power HT with D-Star Capability 7W output @ 7.2V DC; 6.0-10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice & slow data communication. Built in CTCSS/DTCS; Auto low power/power saver; 200 memories; Auto repeater function; PC cloning capability; NOAA WX channel RX (IC-V82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included. Dim: 2.1"w x 5.5"h x 1.4"d; 13.8 oz.

IC-U82 – Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5W output. .. each **CALL/WEB**

Available Accessories:
AD101 Battery adapter for BP211 and BC119N01, **AD9411** Adapter cup for BC119N01, **BC119N01** Desk charger, **BC144N** Rapid desk charger, **BP208N** Battery case, **BP209N** 7.2V 1100mAH 5.5W battery, **BP210N** 7.2V 1650mAH 5.5W battery, **BP222N** 7.2V 600mAH 5.5W battery, **CSV82** cloning software, **HM128L** Rectangle plug earphone + mic, **HM158L** Rectangle speaker/mic/ear-jack/clip, **HM46** Slim-line speaker, **HM54** Heavy duty speaker, **HM75A** Remote control mic, **HS85** Headset w/VOX, **HS94** Earhook headset w/boom mic, **MB103** Spring belt clip, **MB86** Swivel belt clip, **OPC474** Cloning cable, **OPC478** PC RS-232C cable, **OPC478U** PC USB cable, **SP13** Earphone, **UT108** DTMF decoder unit, **UT118** D-Star Digital unit, **VS1L** PTT/VOX unit

DUAL BAND HT

IC-T7H SPORT 2M/440 MHz FM Dual Band HT – Comes with AA battery case that gives it 2W output. Up to 5W with optional 9.6V/650mAh battery or 6W with optional 13.5V DC power cable; TX: 144-148 MHz & 440-450 MHz; RX: 118-174 MHz & 400-470 MHz; One-touch band switching; Priority watch; 70 memories with 9 DTMF for auto dialing; CTCSS tone encode & decode; 50 independently programmable tone frequencies; Auto power save; Auto repeater function; Auto Off; Thumb-touch lock; Internal guide; Backlit LCD; PC Programmable. Dim: 2.3"w x 4.8"h x 1.1"d; 14.3 oz. .. **CALL/WEB**

Available Accessories:
BP170 Battery case, **BP180** 7.2V 600mAh battery, **CP12L** Right angle cigarette cable with filter, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM54** Heavy-duty spkr mic, **HM75A** Remote control mic, **HS85** Headset with VOX, **HS94** Earpiece headset, **NCP1** Nylon chest pack, **OPC254L** Right angle mini DC power cable, **OPC474** radio clone cable, **OPC478** PC RS232C cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94

Same Day Shipping on Most Items

DUAL BAND HT

IC-91A Dual Band HT with D-Star Capability The "A" band (top) offers wide reception from 495 kHz to 999.990 MHz (excluding cellular) in FM/WFM/AM modes. The "B" band (bottom) receives from 118 - 174 MHz & 350 - 470 MHz in FM/FM-N/AM/DV modes. Simultaneous receive of a combination of the "A" and "B" bands allows V/V, V/U and U/U operation. 1304 Alpha memories. Power: 5/0.5W on either band. Digital upgradable with optional UT-121 D-STAR Digital Voice Unit. In DV mode, you can record 30 sec. of audio into memory. Plays a recorded message (up to 10 sec.) in response to a call directed to the user's callsign. Audio messages can even be forwarded. With an external NMEA 0183 format GPS attached (not supplied), your own and others' position information can be sent and received. JIS-4 specification for weather resistance. Includes SMA-type antenna, Li-Ion battery, belt clip & charger. Dim: 2.4"w x 4.2"h x 1.5"d; 10.6 oz..... **CALL/WEB**

IC-91AD D-Star Ready Dual Band HT – The IC-91A with UT-121 DV unit installed.... **CALL/WEB**

Available Accessories:
AD92SMA SMA - BNC adapter, **BC139** Desk rapid charger, **BP216** AA battery case, **BP217** 7.4V 1300mAh lith-ion, **CP19R** Cigarette cable w/filter, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM75A** Remote control mic, **HS85** Headset with VOX, **LC163** Carrying case, **OPC1529R** Data comm. cable, **OPC474** Radio-to-radio clone cable, **RS91** Remote control PC software w/RS-232 cable, **SP13** Earphone, **UT121** D-Star Digital unit (IC-91A only), **NIF MMIC91AD** Nifty mini manual & reference card combo, **RTS WCS91** RT Systems programming software & serial cable (For USB add **RTS RTS03** Serial to USB cable)

TRIBAND HT

IC-T90A 6M/2M/70cm FM Handheld – Palm-sized, simple to operate. Designed with a die-cast aluminum chassis. MOSFET technology, along with a 7.4V Lithium-ion battery, produces a full 5W output. Wideband RX 495 kHz to 999.990 MHz (cell blocked), in AM, FM or WFM modes. Unique WX Alert feature constantly checks local active weather station for alert tone. If alert occurs, the HT automatically switches to the WX channel and beeps. 555 alpha memories (500 regular, 50 scan edges, and 5 call channels). Dynamic Memory Scan (choose any of 500 memories to scan), and with soft partitioning, setting up a maximum of 18 banks. Dim: 2.28"w x 3.44"h x 1.16"d; 8.5 oz. **CALL/WEB**

Available Accessories:
AD92SMA SMA – BNC adapter, **BC139** Desk rapid charger, **BP216** AA battery case, **BP217** 7.4V 1300mAh lith-ion, **CP19R** Cigarette cable with filter, **CST90A** Windows cloning software, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM75A** Remote control mic, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC152A** Carrying case, **MB83** Swivel belt clip, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94, **NIF QRICT90A** Nifty quick reference card, **RTS WCST90** RT Systems programming software & serial cable (For USB add **RTS RTS03** Serial to USB cable)

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TM-D710A

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KENWOOD

HF/6M RADIO

TS-480HX HF/6M All-Mode Transceiver Covers HF/6M, including 60M and receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two 22A power supplies), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Full range of CW features; Auto tune; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/narrow deviation; 1750 Hz tone; Noise blanker; Optional IF filters available; PSK31 compatible; Packet cluster tune with TM-D700A or TM-D710A; PC-based control. Dim: 7.06"w x 2.38"h x 10.19"d; 7.05 lbs. (main unit), 7.06"w x 2.94"h x 1.44"d; 1.1 lbs. (control head)..... **CALL/WEB**

TS-480SAT – 100W version of the HX. Includes built-in automatic antenna tuner..... **CALL/WEB**

Available Accessories:
HS5 Deluxe headphones, **HS6** Lightweight headphones, **KPS15** 23A switching power supply, **MB480** Carry bracket w/handle, **MC43S** 8-pin hand mic, **MC47** Multi function 8-pin hand mic, **MC60A** 8-pin amp desk mic, **MC90** 2-head DSP desk mic, **MJ88** Modular/8-pin adapter, **PG20** 22' DC cable, **PG4Z** 13' panel extension kit, **SO3** TCXO unit, **SP23** Speaker, **SP50B** Mobile speaker, **VGS1** Voice guide/storage unit, **YF107C** 500 Hz CW filter, **YF107CN** 270 Hz CW filter, **YF107SN** 1.8 kHz SSB filter

HIGH END HF/VHF/UHF RADIO

TS-2000 HF/VHF/UHF All Mode Transceiver Offers 3 platforms: (1) A traditional transceiver with full function front panel (TS-2000), (2) the high-tech looking "silver box" version with computer controlled software and no controls (TS-B2000), or (3) TS-2000 with 1.2 GHz (TS-2000X). 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual RX; True IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (.5PPM); CTCSS/DCS en/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports – 2 for HF and 6M, 1 each for 2M, 70cm and HF RX..... **CALL/WEB**

TS-B2000 HF/VHF/UHF All Mode Transceiver TS-2000 but does not have front panel controls or LCD display. Includes ARCP-2000..... **CALL/WEB**

TS-2000X HF/VHF/UHF All Mode Transceiver TS-2000 w/1.2 GHz..... **CALL/WEB**

Available Accessories:
ARCP2000 PC/radio control software (included with B2000 model), **DRU3A** Digital recording unit, **HS5** Deluxe headphones, **HS6** Lightweight headphones, **KPS15** 23A switching power supply, **MB430** Mobile mounting bracket, **MC43S** 8-pin hand mic, **MC57DM** Lit TTP mic, **MC60A** 8-pin amp desk mic, **MC90** 2-head DSP desk mic, **PG2Y** 13' DC cable, **PG2Z** 6.5' DC cable, **RC2000** Remote face plate mobile kit, **SP23** Speaker, **VS3** Voice synthesizer, **NIF MMTS2000/X** Nifty mini manual

SINGLE BAND MOBILE

TM-271A 2M FM Transceiver – Covers 144-148 MHz transmit with 136–174 MHz receive. N.O.A.A. Weather band reception with alert tone; FM Wide/Narrow; Power: 60W; 200 memories; MIL-STD compliant; High quality audio; Illuminated keys and a large LCD with adjustable Green backlighting; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset..... **CALL/WEB**

Available Accessories:
MJ88 Modular/8-pin adapter, **PG2N** DC cable, **PG5D** PC interface cable, **SP50B** External mobile speaker, **NIF QRTM271A** Nifty quick reference card

DUAL BAND MOBILE

TM-V71A 2M/440MHz Dual Bander – Covers 144-148 and 430-450 MHz with 118-524 and 800-1300 MHz receive (cell blocked). Dual Display with dimmer. Visual band scope. Weather alert and 1000 multi-function memory channels (10 memory scan banks) with alpha tags up to six characters. Call channel. Ten dedicated EchoLink® memory channels to communicate over the internet, using VoIP technology. Multiple scanning features. Power levels are 5/10/50W on both bands. Includes: Dual receive (V+V, U+U), scanning, weather alert, password and cross-band repeater operation. CTCSS, DCS and tone Burst encode/decode. PL Decode/Encode Automatic repeater offset. Large green or amber display. Digital voice recorder option. Data jack for external TNC. Dual audio outputs on rear panel. Compatible with ARRL TravelPlus® software. Includes: hand mic, DC power cable, fuse, main unit mounting bracket, microphone hanger. Free MCP-2A programming software is available for download at www.kenwoodusa.com.
Dim: 5.5"w x 1.7"h x 7.1"d; 3.3 lbs.... **CALL/WEB**

Available Accessories:
DFK3D Front panel kit, **MJ88** Modular to 8 pin microphone plug adapter, **PG2N** Extra DC cable, **PG5F** Extension cable kit, **PG5G** PC serial programming cable [DB9], **PG5H** PC interface cable kit, **PG5J** Interface kit for RCD710, **RCD710** TNC/APRS control head, **SP50B** External mobile speaker, **VGS1** Voice guide and storage unit, **NIF MMTMV71A** Nifty mini manual

APRS TNC UPGRADE

RC-D710 APRS TNC Upgrade – Upgrade your current Kenwood transceiver with APRS features similar to the TM-D710A. It can also replace the TM-V71A control panel to enable all TM-D710A features. Works with TM-V71A, TM-D710A, TM-D700A, TM-V708A, TM-G707A, TM-V7A, TM-733A, TM-255A & TM-455A..... **$299.99**

DUAL BAND MOBILE w/TNC

TM-D710A 144/440 MHz Dual Band Data Communicator – Many more features than its predecessor, the popular TM-D700A. Covers 144-148 and 430-450 MHz TX with 144-148 and 430-450 RX plus 118-524 MHz (Band A), 136-524 MHz (Band B) and 800-1300 MHz (less cellular). Dual receive, even on same band; NOAA weather alert; 1000 memory channels. Full 50W output on both VHF and UHF. MCP compatible with the ARRL TravelPlus® CD. Allows you to route your trip in the TravelPlus software, and it figures out all the repeaters that are on the route and imports the frequency, offset and PL tone into the TM-D710A. Key features include: internal clock for APRS® (Automatic Packet/position Reporting System) time and date stamp, **APRS functions:** Sort; Filter, QSY; Decay algorithm; Proportional pathing; Speed and altitude beaconing, Weather beaconing with Davis® weather stations; Voice alert. EchoLink® ready with ten dedicated channels; Built-in sound card interface; NMEA 0183 GPS I/O port – can employed as part of Kenwood's *Skycommand System II+* when used with the TS-2000 series. Selectable orange or green screen background.
Dim: (panel) 6.24"w x 2.81"h x 2.24"d, (body) 5.60"w x 1.76"h x 6.32"d; 3.3 lbs..... **CALL/WEB**

Available Accessories:
MJ88 Modular to 8 pin microphone plug adapter, **PG2N** Extra DC cable, **PG5F** Extension cable kit, **PG5G** Programming interface kit, **PG5H** Computer interface kit, **SP50B** External mobile speaker, **VGS1** Voice guide and storage unit, **NIF MMTMD710A** Nifty mini manual

PC INTERFACE CABLE FOR TM-V71A & TM-D710A

PG-5H Computer Interface Cable – Connects your Kenwood TM-V71A or TM-D710A to your Windows® based PC for multiple functions. Used primary for EchoLink® allowing you to communicate with radio amateurs around the world on the Internet using VOIP (visit www.echolink.org for more info). Can also be used in place of the PG-5G programming cable for programming the radio's 1,000 memory channels using the free MCP-2A Memory Control software (download it from www.kenwoodusa.com). Also can be used with the ARRL TravelPlus® software to import Repeater information over a set route..... **$64.99**

Please call/web for current prices & promotions.

KENWOOD

SINGLE BAND HANDHELD

TH-K2AT 2M FM HT
5W RF output; 100 memories with 6-character names; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock & humidity; PC programming; Charges 3x faster than previous models with its high-capacity NiMH battery.
Dim: 5"h x 2.4"w x 1.1"d; 12.5 oz. ..... **CALL/WEB**

Available Accessories:
BT14 Six "AA" battery holder, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **KHS26** Lapel clip mic/earphone PC, **KSC24** Rapid charger, **PB43N** 7.2V 1100mAh NiMH battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4Y** 9 pin programming cable, **SC54** Soft case, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

TRI BAND HANDHELD

TH-F6A FM Tri Band HT
Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked), includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW receive modes; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for programmable scan; 5W output with 7.4V lithium-ion battery; 16-key backlit pad plus multi-scroll key; Built-in charging circuitry, battery recharges while unit operates from a DC supply; Selectable squelch configuration; Memory shift; Key lock; Built-in CTCSS encode/decode (42 subtone frequencies) DCS (104 codes), 1750Hz tone burst; Compatible with external 1200/9600bps TNC; Large 8-character alphanumeric display; Automatic simplex checker; Wireless remote control function; ATT (attenuator) on/off; Battery indicator; Internal VOX; MCP programming software via www.kenwood.net (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Comes with belt hook, SMA antenna, hand strap, PB-42L 7.4V 1550mAh lithium-ion battery pack, AC adapter.
Dim: 3.4"h x 2.3"w x 1.2"d; 8.8 oz. .... **CALL/WEB**

Available Accessories:
BT13 AA battery case, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **KHS26** Lapel clip mic/earphone PC, **PB42L** 7.4V 1550mAh lith-ion battery, **PG2W** DC cable, **PG3J** Cigarette cord w/filter, **PG4Y** 9 pin programming cable, **SC51** Softcase with swivel belt clip, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic w/remote control, **SMC34** Speaker mic w/volume function keys, **WR2** Water resistant bag, **NIF QRTHF6A** Nifty quick reference cards

Please call/web for current prices & promotions.

KENWOOD ACCESSORIES FOR BASE, MOBILE AND HANDHELD RADIOS

LOW-PASS FILTER

LF-30A Low-Pass Filter – Use with 160-10M transceivers to suppress TVI causing harmonics. Provides a 30 MHz cutoff and >90dB attenuation from 90–300 MHz. Power rating: 1000W SSB. Insertion loss: <0.5dB @ 30 MHz.
Dim: 9.6"w x 2"h x 1.5"d; 1.2 lbs..... **$69.99**

BASE MICROPHONES

MC-60A Desktop Microphone – Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Requires two "AA" batteries..... **$149.99**

MC-90 DSP Compatible Desk Microphone – It is supplied with two interchangeable heads. One has a flat response for good overall performance. The other offers exceptional clarity and a characteristic that peaks at around 3 kHz, perfect for DX. A 3-position switch on the base tailors the low-range cutoff frequency to suit the operator. Includes 6 ft coiled cord with 8-pin plug..... **$249.99**

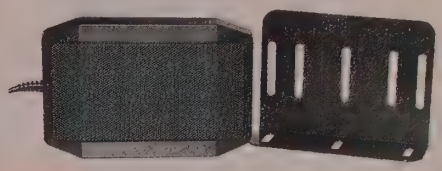
MJ-88 Modular to 8-pin mic adapter. **$35.99**

HANDHELD MICROPHONES

SMC-34 Speaker mic with 3 function keys & volume control..... **$35.99**
SMC-33 Remote control speaker mic..... **$73.99**
KHS-26 Clip microphone w/earphone... **$25.99**
HMC-3 Headset (VOX & PTT)..... **$52.99**
SMC-32 Speaker microphone..... **$58.99**

MOBILE SPEAKERS

KES-5
Mobile speaker
Heavy duty, meets Military Standards 810C, D, E & F. This 4 ohm speaker handles 40W of power, making it great for emergency and other vehicles requiring loud and clear audio. Includes a metal bracket to support the speaker from below or above, and attached cable without a connector so you can install your own.
Dim: 5.1"w x 5.1"h x 3"d; 1.8 lbs..... **$49.99**



SP-50B Communications Speaker – Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated to 1.5 watts with a 300-4000Hz frequency response.
Dim: 4.8"w x 3.2"h x 1.4"d; 10 oz. **$59.99**

BASE SPEAKER

SP-23 Base Speaker – This versatile 8 ohm speaker features a metal cabinet with flip-out tilt bar. It houses a 3 in. speaker rated at 1W with a 300-5000 Hz frequency response. Includes a 3 ft cable.
Dim: 4.8"w x 3.75"h x 9.25"d; 2.8 lbs..... **$89.99**

HEADPHONES

HS-5
Deluxe Headphones
Natural sound and low pressure permits long hours of fatigue free listening. Replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Response: 150-4000Hz, 8 ohms. Weight: 13 oz..... **$87.99**

HS-6
Lightweight Headphones
Response: 100-10,000 Hz; Impedance: 12.5 ohms; 6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz.
$65.99

The radio... FT DX 9000

DISTINGUISHED

Experience 400 imposing Watts, and call with confidence!

Photograph depicts after-market keyboard, keyer paddle, and monitor, not supplied with transceiver. Display image simulated and may differ in actual use.

The FT DX 9000MP's Power Amplifier stage utilizes SD2931 MOS FET devices in a parallel, push-pull configuration, a conservative design that permits ultra-clean Class-A operation at a full 100 Watts of output, with continuous bias adjustment between Classes A and AB available on the front panel. If you have a professional microphone with a balanced "Cannon" (XLR) connector, you may connect it directly to the matching connector on the front panel, then use our exclusive three-band Parametric Microphone Equalizer to adjust the center frequency, bandwidth, and equalizer gain in the bass, mid-range, and treble frequency ranges.

YAESU engineers take signal quality seriously, because we know you do, too!

HF/50 MHz Transceiver

FT DX 9000MP

400 W Special Order Version

Two Pairs of Meters, plus LCD Window, Data Management Unit and Flash Memory Slot Built In, Main/Sub Receiver VRF, plus Full Dual Receive Capability, External 50 V/24 A Switching Regulator Power Supply and Speaker with Audio Filters

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 400 to 200 W not possible.

HF/50 MHz Transceiver

FT DX 9000D **200 W Version**

Large TFT, Data Management Unit and Flash Memory Slot Built In, Main/Sub Receiver VRF, plus Full Dual Receive Capability, Three μ-Tuning Modules for 160 - 20 M, 50 V/12 A Internal Switching Regulator Power Supply

HF/50 MHz Transceiver

FT DX 9000 Contest **200 W Custom-Configurable Version**

Two Pairs of Meters, plus LCD Window, VRF Input Preselector Filter, Three Key Jacks, and Dual Headphone Jacks, 50 V/12 A Internal Switching Regulator Power Supply

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 200- to 400-Watt version not available.

"The Best of the Best Just Got Better"

Introducing the new FT DX 9000 Series with PEP-9000 (Performance Enhancement Program)

For the latest Yaesu news, visit us on the Internet:
http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DX'ers™

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

Introducing the Yaesu FT-950 transceiver for DX enthusiasts
Superb receiver performance
Direct lineage from the legendary FT DX 9000 and FT-2000

HF/50 MHz 100 W Transceiver

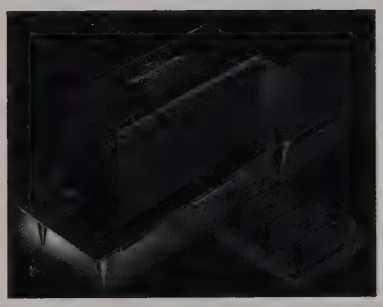
FT-950

- Triple-conversion super-heterodyne receiver architecture, using 69.450 MHz 1st IF
- Eight narrow, band-pass filters in the RF stage eliminate out of band interference and protect the powerful 1st IF
- 1st IF 3 kHz Roofing filter included
- High-speed Direct Digital Synthesizer (DDS) and high-spec Digital PLL for outstanding Local Oscillator performance
- Original YAESU IF DSP advanced design, provides comfortable and effective reception. IF SHIFT / IF WIDTH / CONTOUR / NOTCH / DNR
- DSP enhancement of Transmit SSB/AM signal quality with Parametric Microphone Equalizer and Speech Processor
- Built-in high stability TCXO (±0.5 ppm after 1 minute@77 ° F)
- Built-in automatic antenna tuner ATU, with 100 memories
- Powerful CW operating capabilities for CW enthusiasts
- Five Voice Message memories, with the optional DVS-6 unit
- Large Multi-color VFD (Vacuum Fluorescent Display)
- Optional Data Management Unit (DMU-2000) permits display of various operating conditions, transceiver status and station logging.
- Optional RF μ -Tune Units for 160 m, 80/40 m and 30/20 m Bands

Optional, YAESU Exclusive, Fully-Automatic μ -Tuning Preselector System!

Fully automatic, Ultra-sharp, External μ -Tuning Preselector (optional) features a 1.1" (28 mm) Coil for High Q

On the lower Amateur bands, strong signal voltages impinge on a receiver and create noise and intermod that can cover up the weak signals you're trying to pull through. YAESU engineers developed the μ (Mu) Tuning system for the FT DX 9000/FT-2000, and it is now available as an option for the FT-950. Three modules are available (MTU-160, MTU-80/40, MTU-30/20); these may be connected externally with no internal modification required! When μ -Tuning is engaged, the VRF system is bypassed, but the fixed Bandpass Filters are still in the received signal path.



Optional External Data Management Unit (DMU-2000) Provides Many Display Capabilities

Enjoy the ultimate in operating ease by adding the DMU-2000! Enjoy the same displays available with the FT DX 9000 and FT-2000: Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, Extensive Transceiver Status Displays, and Station Logging Capability. These extensive functions are displayed on your user-supplied computer monitor.

Shown with after-market keyer paddle, keyboard, and monitor (not supplied).

DMU-2000
Data Management Unit (option)

"The Best of the Best Just Got Better"

Introducing the new FT-950 Series with PEP-950 (Performance Enhancement Program)

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http://www.vertexstandard.com

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HF/VHF/UHF RADIOS

FT-857D HF/VHF/UHF 100W Multi-Mode Mobile 160-10M, 60M, 6M, 2M, 70cm with 0.1-56, 76-108, 118-164 & 430-470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories; Enhanced performance with installed DSP board; Large, multi-color LCD display; Dual VFOs; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™. Dim: 6.1"w x 2"h x 9.2"d; 4.6 lbs.
YSK-857 Included with purchase..... **CALL/WEB**

Available Accessories:
BET YAETUNECONT Better RF, **NIF MMFT857D** Nifty mini manual, **W4R OBPSTD** W4RT Speech compressor, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFSSB** W4RT 2.3 KHz Collins, **W4R OPFYCW300** W4RT 300 Hz Collins, **ADMS4B** Programming Software, **ATAS120** HF/6/2/430 antenna, **ATAS25** 40/20/15/10/6/2/430 antenna, **ATBK100** ATAS120 base kit, **CT39** Packet cable, **CT58** Band data cable, **CT62** Cat interface cable, **EDC20** DC cord, **FC30** External antenna tuner, **FC40** Auto tuner, **FP1023** 23A power supply, **FP1030A** 25A power supply w/meters, **MD100A8X** Desk mic w/tone control, **MD200A8X** Deluxe high fidelity desk mic, **MH36E8J** TTP mic, **MH59A8J** Remote control TTP mic, **MLS100** Mobile speaker, **TCXO9** TCXO unit (0.5ppm), **T9023225** Extra DC cord, **YA007FG** FG whip w/mount, **YF122C** 500 Hz Collins CW filter, **YF122CN** 300 Hz Collins CW filter, **YF122S** 2.3 kHz Collins SSB filter, **YH77STA** Stereo headphones, **YSK857** Separation kit

FT-897D HF/VHF/UHF 100W Multi-Mode Portable/Base – Similar to the FT-857D but can also operate using optional FNB-78 13.2V @ 4500mAh NiMH internal battery packs. With a battery pack it operates at 20W on all bands except 430 MHz (10W). Two FNB-78 packs may be installed simultaneously giving up to 8 hours of use.
Dim: 7.9"w x 3.14"h x 10.3"d; 8.6 lbs. **CALL/WEB**

Available Accessories:
Uses the same accessories as the FT-857D above, except: **NIF MMFT857D, CT58, FP1023, FP1030A, TCX09 & YSK857**
Additional accessories for FT-897D: NIF MMFT897D Nifty mini manual, **CD24** 4-hr charge adapter for FNB78, **FNB78** 4.5AH NIMH battery, **FP30** Internal PS, **MMB80** Mobile bracket, **PA26B** 110VAC charger for CD24

FT-817ND HF/VHF/UHF 5W Backpack QRP Transceiver – Similar to the FT-857D but no DSP and is low power for portability. RX coverage is also different: 0.1-56 MHz, 76-154 MHz, 420-470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM & 1.5W AM with external 13.8V DC; 2.5W SSB/CW/FM & 0.7W AM with 9.6V battery pack or 8 AA batteries (can be changed to 5W SSB/CW/FM via menu). Includes 50/144/430 MHz whip antenna, 1400mAh NiMH battery and AA battery case.
Dim: 5.3"w x 1.5"h x 6.5"d; 2.6 lbs. ... **CALL/WEB**

Available Accessories:
NIF MMFT817ND Nifty mini manual, **W4R OBF817/NDDIY** W4RT CW & SSB Collins Filter, **W4R OBPSTD** W4RT Speech compressor, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFSSB** W4RT 2.3 KHz Collins, **W4R OPFYCW300** W4RT 300 Hz Collins, **ADMS4A** Programming software, **ATAS25** 40/20/15/10/6/2M/430MHz antenna, **CSC83** Soft case, **CT39** Packet cable, **CT62** CAT interface cable, **EDC6** DC cord, **FNB85** 9.6V 1400mAh NiMH, **MH36E8J** TTP mic, **MLS100** Mobile speaker, **NC72B** Wall charger, **TCXO9** TCXO unit, **YA007FG** FG whip with mount, **YF122C** 500 Hz Collins CW, **YF122CN** 300 Hz Collins CW, **YF122S** 2.3 kHz Collins SSB

YAESU

HF/6M RADIOS

FT-450 HF/6M 100W Compact Transceiver Covers 160-6M TX with 0.03-56 MHz RX and AM/FM/SSB/CW modes, built-in CTCSS. 500 regular memories; Power: 100W output. 10 kHz roofing filter and 400 MHz IF DSP. Built-in electronic keyer with 118 character CW beacon function. LCD display and bar-graph metering. Selectable AGC, IF width & shift, contour, digital noise reduction, manual notch filter and clarifier. IPO, VOX. Dedicated Data Jack for FSK-RTTY. Digital voice announcement of frequency, mode and S-meter, Comes with hand mic, mic clip & DC power cord. Optional internal antenna tuner & carrying handle.
Dim: 9"w x 3.3"h x 8.5"d; 7.9 lbs. ..... **CALL/WEB**

FT-450AT – Same as FT-450 but includes installed ATU-450 auto antenna tuner..... **CALL/WEB**

Available Accessories:
BET YAETUNECONT Better RF, **NIF MMFT450/AT** Nifty mini manual, **ATAS120** HF/6/2/430 antenna, **ATBK100** ATAS120 base kit, **ATU450** Internal coax automatic antenna tuner (160-6M, FT-450 only), **CT118** Control cable for Quadra System, **FC40** External automatic wire antenna tuner, **FP1023** 23A Switching power supply, **FP1030A** 30A power supply, **MD100A8X** Desk mic with tone control, **MD200A8X** Deluxe high fidelity desk mic, **MHG1** Carrying handle, **MMB90** Mobile mounting bracket, **T9023725** Extra DC cord, **T9207451** 6.5' 10-pin DIN plug & cable, **YH77STA** Stereo headphones

FT-950 HF/6M 100W Transceiver – Covers 160-10 Meters + 50 MHz band (TX) and 0.03-56 MHz (RX), all modes. Power: 100W SSB/CW/FM (25W AM). DSP is utilized throughout the design providing leading-edge performance on both transmit and receive. This incorporates many features such as Variable Bandwidth, IF Shift and Passband Contour tuning. Also provided are Digital Noise Reduction, Digital Auto-Notch Filtering and manually tuned IF Notch filter. The DMU-2000 is an option that provides extensive display capabilities via a user-supplied VGA computer monitor. Some of these capabilities include Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, extensive Transceiver Status Displays and Station Logging Capability. Other features include Speech Processing, built-in Electronic Keyer, Digital Noise Reduction, two antenna jacks and Automatic Antenna Tuner.
Dim: 14.4"w x 4.5"h x 12.4"d; 28.7 lbs. **CALL/WEB**

Available Accessories:
BET YAETUNECONT Better RF, **NIF MMFT950** Nifty mini manual, **CT118** Control cable for Quadra System, **DMU2000** Data management unit, **DVS6** Voice memory unit, **FC40** Auto tuner, **FH2** Remote Keypad, **FP1023** 23A power supply, **FP1030A** 25A power supply w/meters, **MD100A8X** Desk mic. w/tone control, **MD200A8X** Dlx hi-fidelity desk mic., **MTU160** U-tuning kit 160M, **MTU30/20** U-tuning kit 30/20M, **MTU80/40** U-tuning kit 80/40M, **SP2000** External speaker w/audio filters, **T9023725** Extra DC cord, **T9101556** Rotor control cable, **T9207451** 6.5' 10-pin DIN plug & cable, **YH77STA** Stereo headphones

Please call/web for current prices & promotions.

HIGH-END HF/6M BASE STATIONS

FT-2000 HF/6M 100W Transceiver – Covers 160-6M (TX) and 0.03-60 MHz (RX), all modes. Power output: 100W. Features: Built-in automatic antenna tuner; DSP-based variable IF Bandwidth, IF shift and Contour Tuning; First IF Roofing Filters (3 kHz/6 kHz/15 kHz included); Dual In-band Receive; Receiver Front End includes VRF (variable RF Tuning) Preselector that works in conjunction with a bank of fixed bandpass filters; External display port with optional DMU-2000 unit for viewing of RF scope, Audio scope and Oscilloscope displays.
Dim: 16"w x 5.3"h x 14"d; 33 lbs. ..... **CALL/WEB**

FT-2000D – Same as the FT-2000 but 200W output & ext. power supply included..... **CALL/WEB**

Available Accessories:
NIF MMFT2000/D Nifty mini manual, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFYCW300** W4RT 300 Hz Collins, **CT119** Firmware upgrade cable, **DMU2000** Data management unit, **FH2** Remote Keypad, **MD100A8X** Desk mic. w/tone control, **MD200A8X** Dlx hi-fidelity desk mic., **MH31B8** Extra hand mic., **MTU160** U-tuning kit 160M, **MTU30/20** U-tuning kit 30/20M, **MTU80/40** U-tuning kit 80/40M, **SP2000** External speaker w/audio filters, **T9101556** Rotor control cable, **YF122C** 500HZ Collins CW filter, **YF122CN** 300HZ Collins CW filter, **YH77STA** Stereo headphones

FTDX-9000 Series – Covers HF and 6 meters; available in three configurations including 200W and 400W versions. Class-A operation at 100W with 400W version and 75W with the 200W versions. The 200W versions feature a built-in power supply. There is an included external power supply for the 400W version. Large, precision analog meters and a 6.5 in. TFT display (FTDX-9000D) gives unprecedented information and access to dozens of features and settings. An ultra-quiet 400 MHz high resolution direct digital synthesizer combines with the state-of-the-art receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded FTDX-9000D includes three permeability-tuned, motor-driven "u" RF Tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing and microphone equalization and monitor for voice data and CW modes. There is also a low level transverter output port. A flash memory port and keyboard connector ensure that your station will evolve as the FTDX-9000 does.

FTDX-9000D 200W, TFT display. ... **CALL/WEB**
FTDX-9000MP 400W, no TFT. ..... **CALL/WEB**
FTDX-9000 Contest 200W, no TFT. **CALL/WEB**
(all FTDX-9000 radios are drop shipped from Yaesu)

Available Accessories:
MD100A8X Desk mic w/tone control, **MD200A8X** Dlx hi-fidelity desk mic, **MH31B8** Extra hand mic, **SP9000** Ext. dual speakers w/filters for FTDX-9000D & FTDX-9000Contest, **YH77STA** Stereo headphones

FTDX-9000Contest & MP Accessories From Factory:
MTU160/DS 160M MTU, **MTU30/20/DS** 30/20M MTU, **MTU80/40/DS** 80/40M MTU, **TFT9000** TFT display unit

FTDX-9000Contest Accessories From Factory:
DMU9000 Data management unit, **RXU9000** Dual RX unit, **VRF9000** VRF unit for RXU9000

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NEW COMPACT HF TRANSCEIVER WITH IF DSP

A superb, compact HF/50 MHz radio with state-of-the-art IF DSP technology configured to provide YAESU World-Class Performance in an easy to operate package.
New licensees, casual operators, DX chasers, contesters, portable/field enthusiasts, and emergency service providers - *YAESU FT-450...This Radio is for YOU!*

HF/50 MHz 100 W All Mode Transceiver

FT-450 Automatic Antenna Tuner ATU-450 optional

■ **FT-450AT** With Built-in ATU-450 Automatic Antenna Tuner

Compact size : 9" X 3.3" x 8.5" and Light weight : 7.9 lb

■ Large informative Front Panel Display, convenient Control knobs and Switches

■ The IF DSP guarantees quiet and enjoyable highperformance HF/50 MHz operation

Handy Front Panel Control of Important Features including:

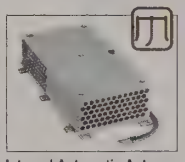
- **CONTOUR Control Operation**
  The Contour filtering system provides a gentle shaping of the filter passband.
- **Manual NOTCH**
  Highly-effective system that can remove an interfering beat tone/signal.
- **Digital Noise Reduction (DNR)**
  Dramatically reduces random noise found on the HF and 50 MHz bands.
- **IF WIDTH**
  The DSP IF WIDTH tuning system provides selectable IF passband width to fight QRM.
  SSB - 1.8/2.4/3.0 kHz , CW - 0.5/1.8/2.4 kHz
- **Digital Microphone Equalizer**
  Custom set your rig to match your voice characteristics for maximum power and punch on the band.
- **Fast IF SHIFT Control**
  Vary the IF SHIFT higher or lower for effective interference reduction / elimination.

■ The rugged FT-450 aluminum die-cast chassis, with its quiet, thermostatically controlled cooling fan provides a solid foundation for the power amplifier during long hours of field or home contesting use.

MOS FET RD100HHF1

The rugged aluminum die-cast chassis with cooling fan

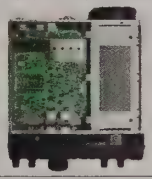
■ Operate anywhere using optional internal or external antenna tuning systems



Internal Automatic Antenna Tuner ATU-450
Covering 160 m to 6 m Amateur Bands Dipole or Yagi antennas
(The ATU-450 Antenna Tuner is included in the FT-450AT)

External Automatic Antenna Tuner FC-40
Covering 160 m to 6 m Amateur Bands (with 65+ ft end fed wire)

Active Tuning Antenna System ATAS-120A
Covering 40 m to 6 m Amateur Bands
(For mobile)



More features to support your HF operation
●10 kHz Roofing filter ●20 dB ATT / IPO ●Built-in TCXO for incredible ±1 ppm/hour (@+77 °F, after warmup) stability ●CAT System (D-sub 9 pin): Computer programming and Cloning capability ●Large, Easy-to-See digital S meter with peak hold function ●Speech Processor ●QUICK SPLIT to automatically Offset transmit frequency (+5 kHz default) ●TXW to monitor the transmit frequency when split frequency operation is engaged ●Clarifier ●Built-In Electronic Keyer ●CW Beacon (Up to 118 characters using the CW message keyer's 3 memory banks) ●CW Pitch Adjustment (between 400 to 800 Hz, in 100 Hz steps) ●CW Spotting (Zero-Beating) ●CW Training Feature ●CW Keying using the Up/Down keys on the optional microphone ●Two Voice Memories (SSB/AM/FM), store up to 10 seconds each ●20 seconds Digital Voice Recorder ●Dedicated Data Jack for FSK-RTTY operation ●Versatile Memory System, up to 500 memory channels that may be separated into as many as 13 Memory Groups ●CTCSS Operation (FM) ●My Band / My Mode functions, to recall your favorite operating set-ups ●Lock Function ●Adjustable Main Tuning Dial Torque ●C.S. Switch to recall a favorite Menu Selection directly ●Hand Microphone included ●IMPORTANT FEATURE FOR THE VISUAL IMPAIRED OPERATORS - Digital Voice Announcement of the Frequency, Mode or S-meter reading

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YAESU

SINGLE BAND MOBILES

FT-1900R 55W 2M FM Mobile – Most of the same features as the FT-1802M except 55W maximum output and added "Memory Only" mode. Extended receive 136-174 MHz (includes a 10 channel NOAA weather bank); Power: 55/25/10/5W; 221 Alphanumeric memories with eight banks; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS), Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry. "Memory Only" mode disables VFO operation making this radio perfect for first time use operators like during public service events. Just program the memory channels and use the Dial Knob to flip through the memories.
Dim: 5.8"w x 1.6"h x 5.8"d; 2.6 lbs. .....**CALL/WEB**

Available Accessories:
MLS100 Mobile speaker, T9021715 Extra DC cable

FT-1802M Previous version of the FT-1900R
Same features except 50W maximum output and no "Memory Only" mode..... C/O **CALL/WEB**

FT-2900R 75W 2M FM Mobile – Improves from the FT-2800M in many ways: Increased the maximum output to 75W, has a larger LCD display, "Memory Only" mode and EPCS (Enhanced Paging & Code Squelch) which allows you to place a call to a specific station and to receive calls of your choice directed only to you. The radio utilizes a ultra-high dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137-174 MHz receive. Includes Weather with Alert and 221 memories. Power: 75/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Mic gain control; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready.
Dim: 6.3"w x 2"h x 7.3"d; 4.2 lbs..... **CALL/WEB**

Available Accessories:
MLS100 Mobile speaker, S8002051 Extra mobile bracket, S8101436 Extra DC cable

FT-2800M Previous version of the FT-2900R
Same features except 65W maximum output, smaller LCD display, no "Memory Only" mode and no EPCS ..... C/O **CALL/WEB**

DUAL BAND MOBILES

FT-7900R 50/45W 2M/440 MHz FM Mobile New replacement for the FT-7800R. Most of the same features as the previous model except 45W maximum output on 440 MHz and added "Memory Only" mode. Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater or satellite operation on both bands, without the need for cross-band repeat. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) receive. Power: 50W (2M), 45W (430 MHz); N.O.A.A. WX alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; "Memory Only" mode; Illuminated keypad & mic keys; WIRES™ capability. Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs.
YSK-7800 Included with purchase..... **CALL/WEB**

Available Accessories:
ADMS2K Programming software, CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, T9021715 Extra DC cable, YSK7800 Remote separation kit

FTM-10 series doesn't include a hand mic. Mic and PTT is built in the control head.

FTM-10R 50/40W 2M/440 MHz FM Mobile Compact, perfect for outdoor motor sports communications. TX: 144-148 and 430-450 MHz; RX: 0.5-1.8, 76-108, 108-137, 137-174, 174-222, 300-420, 420-470, 470-800 and 800-999 MHz (cell blocked). Has 500 memory channels with 8-digit alphanumeric tags and includes an independent AM/FM broadcast receiver. Listen to AM or FM broadcast and monitor an amateur band at the same time. AM/FM/NFM/WFM (Stereo) modes. Power Output: 50W (2m)/40W (70cm). The mic and PTT button are built into the front panel. Optional conventional hand mic MH-68A6J is available. Dual receive; Smart Search; CTCSS & DCS; DTMF. 1200/9600 bps Packet jack; WIRES-II™ and Bluetooth capable. PA function; Intercom feature to communicate with a fellow passenger, hands-free intercom is available with the optional Bluetooth adapter. Comes with mounting brackets and 10 ft. separation cable.
Dim: 4.4"w x 1.5"h x 7"d; 2.9 lbs..... **CALL/WEB**

FTM-10SR – Same except lower power 10W (2M), 7W (440 MHz), smaller & waterproof. **CALL/WEB**

Available Accessories:
AMK1 License plate bracket for YHAM-10, BLUETOOTHKIT Bluetooth kit, CD40 3 hour bluetooth charge cradle, COX2MM 6.6' coax cable for YHAM-10, CTM10 20' separation cable, CTM11 Headset connection cable, FEP4 Other earphone for bluetooth, MEKM10 Mic adapter jack, MH68A6J Waterproof DTMF hand mic, MH68B6J Waterproof 3-key hand mic, MLS200M10 High power waterproof external speaker, MMBM10 Multi-angle stand bracket, MMBM11 Multi-angle handlebar bracket, NC85B Battery charger for CD40, YHAM10 2M/440 19.7" antenna

Please call/web for current prices & promotions.

DUAL & QUAD BAND MOBILES

FT-8800R 50/35W 2M/440 MHz FM Mobile Easy operation, outstanding receiver performance, and crossband repeat capability. Covers 144-148 & 430-450 MHz transmit with 108–520 & 700-999 MHz (cell blocked) wide coverage receive; Power: 50W on 144 MHz, 35W on 430 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band, and six "Hyper Memories"; Independent 2-channel operation – dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; One-touch band pattern; CTCSS/DCS (50/104 tone); Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs.
YSK-8900 Included with purchase ..... **CALL/WEB**

FT-8900R Quad Band FM Mobile – Same as the FT-8800R but covers 28-29.7, 50-54, 144-148, 430-440 MHz transmit with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) receive. Power: 50W (10/6/2M), 35W (430 MHz).
YSK-8900 Included with purchase ..... **CALL/WEB**

Available Accessories for FT-8800R & FT-8900R:
NIF MMFT8800R Nifty mini manual (FT-8800 only), NIF MMFT8900R Nifty mini manual (FT-8900 only), ADMS2H Programming software (FT-8900 only), ADMS2I Programming software (FT-8800 only); CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release bracket, T9021810 Extra DC cable, YSK8900 Remote separation kit

SINGLE BAND HT

FT-250R 5W 2M FM HT Most of the same features as the VX-150 except increased AF output; added "Memory Only" mode and replaced NiCad battery with NiMH. Coverage: 144-148 MHz TX, 140-174 MHz RX. 209 memories; Three power output levels 5/2/0.5W; Wide/Narrow deviation selection; Direct keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™; 209 Alpha memory channels; 9 DTMF auto dial memo memory bank and preferential memory scanning; "Memory Only" mode; CTCSS & DCS encode/decode; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ function; Die-cast aluminum case; Selectable 400mW or 700mW AF power output; MIL-STD 810D/E. Comes with NiMH battery pack, SMA antenna, wall charger, and belt clip.
Dim: 4.3"h x 2.3"w x 1"d; 12.4 oz..... **CALL/WEB**

Available Accessories:
ADMS1F Programming software, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 "AA" cell battery case, FNB83 7.2V 1400mAh NIMH battery, LCC150/TT Leather case, LCC150S/TT Leather case/swivel, MH34B4B Speaker mic, MH37A4B Earpiece and mic, VC25 VOX headset

VX-150 Previous version of the FT-250R
Same features except 400mW AF output, no "Memory Only" mode & NiCad battery. ..... C/O **CALL/WEB**

The Hottest Field Gear Anywhere!

HF/VHF/UHF Portable Operation Just Got a Lot More Powerful!

FT-897D TCXO DSP 60 m Band

HF/50/144/430 MHz
100 W All Mode Transceiver (144 MHz 50 W/430 MHz 20 W)

HF/VHF/UHF Multimode Mobile Transceiver, now Including Built-in DSP

FT-857D DSP 60 m Band

HF/50/144/430 MHz
100 W All Mode Transceiver (144 MHz 50 W/430 MHz 20 W)

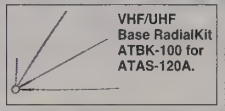
Automatic Matching for FT-897/857 Series Transceivers

FC-40
Automatic-Matching 200-Memory Antenna Tuner (160 m ~ 6 m Band)

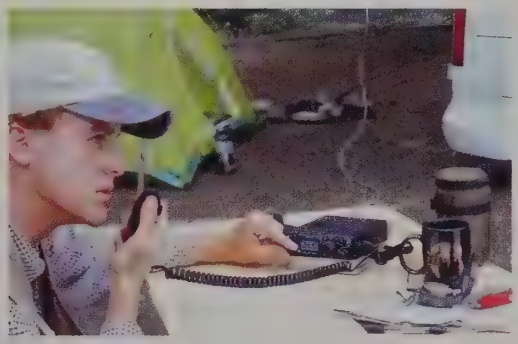
WATERPROOF

Mobile Auto-Resonating 7~430 MHz for FT-897/857 Series Transceivers

ATAS-120A
Active Tuning Antenna System (no separate tuner required)



VHF/UHF Base RadialKit ATBK-100 for ATAS-120A.

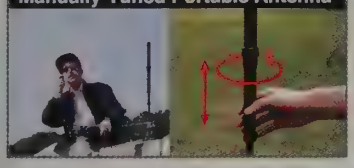


REAL PERFORMANCE, REALLY PORTABLE

FT-817ND
HF/50/144/430 MHz
5 W All Mode Transceiver (AM 1.5 W)

60 m Band

ATAS-25 ATAS MICRO
Manually-Tuned Portable Antenna



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A Radio For Every Need - Yaesu VHF/UHF Handhelds

A TECHNOLOGY BREAKTHROUGH

The New Prestigious Compact – VX-8R

- All-in-one High-performance Tri-Band Transceiver with GPS/APRS® Operation*1

- Bluetooth® for Hands-free Operation*1
- Barometric Pressure and Temperature Sensors
- Waterproof/Submersible IPX7 rated –3 feet for 30 minutes
- Dual Ham band Operation (V+V/U+U/V+U) while listening to AM/FM Broadcasts
- Wideband Receive for 500 kHz-999.99 MHz*2
- Completely independent AM/FM receiver included!
- Internal Bar Antenna for better AM Broadcast Band reception.
- Enjoy FM broadcasts in stereo, with your stereo headset/earphone!
- Optional 1 watt operation, using three AA batteries*1
- A large LCD backlit display in a compact case!
- Up to 9 hours*3 of Amateur Band operation with the optional FNB-102LI, high capacity Lithium-ion Battery.

*1 With optional accessories
*2 US Version - Cellular band blocked
*3 Assuming a duty cycle of 6-second transmit, 6-second receive, and 48-second standby (50 MHz 5 W)
* APRS® is a registered trademark of Bob Bruninga WB4APR

5 W Submersible
6 m/2 m/70 cm Tri-Band FM Hand held (220 MHz: 1.5 W)

VX-8R IPX7 Submersible 3 feet (1m) for 30 min. | 6 m / 2 m / 70 cm Tri-Band

5 W Ultra-Rugged, Submersible 6 m/2 m/70 cm Tri-Band FM Hand held
VX-7R/VX-7RB 6 m / 2 m / 70 cm Tri-Band
(220 MHz: 300 mW)

5 W Heavy Duty Submersible 2 m/70 cm Dual Band FM Hand held (220 MHz: 1.5 W)
VX-6R 2 m / 70 cm Dual Band

5 W Heavy Duty 2 m/70 cm Dual Band FM Hand held
FT-60R 2 m / 70 cm Dual Band

1.5 W Ultra Compact 2 m/70 cm Dual Band FM Hand held
VX-3R 2 m / 70 cm Dual Band

5 W Heavy Duty Submersible 2 m FM Mono Band Hand Helds
VX-120.VX-170
(8 key Version) (16 key Version)

70 cm FM Mono Band Hand Held
VX-177
(16 key Version)

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http://www.yaesu.com

* VX-120 is a special order item.
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- All-in-one High-performance Tri-Band Transceiver with GPS/APRS® Operation *1
- Bluetooth® for Hands-free Operation *1
- Barometric Pressure and Temperature Sensors
- Waterproof/Submersible IPX7 rated – 3 feet for 30 minutes
- Dual Ham band Operation (V+V/U+U/V+U) while listening to AM/FM Broadcasts
- Wideband Receive for 500 kHz-999.99 MHz *2
- Completely independent AM/FM receiver included!
- Internal Bar Antenna for better AM Broadcast Band reception.
- Enjoy FM broadcasts in stereo, with your stereo headset/earphone!
- Optional 1 watt operation, using three AA batteries *1
- A large LCD backlit display in a compact case!
- Up to 9 hours *3 of Amateur Band operation with the optional FNB-102LI, high capacity Lithium-ion Battery.

*1 With optional accessories
*2 Cellular Blocked per FCC rule Part 15.121, may not receive 900 MHz Amateur band
*3 Assuming a duty cycle of 6-second transmit, 6-second receive, and 48-second standby (50 MHz 5 W)
* APRS® is a registered trademark of Bob Bruninga WB4APR

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SINGLE BAND HT

FT-270R 5W 2M FM HT New replacement for the VX-170. Most of the same features as the previous model except increased AF output and added "Memory Only" mode. A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. Receive coverage is from 136-174 MHz and has 200 alphanumeric memory channels that may be partitioned into as many as 10 memory groups. "Memory Only" mode; A 16 key backlit keypad for direct frequency entry and 4 column DTMF Paging. CTCSS/DCS encode/ decode and a Code Squelch (EPCS) that allows paging a particular station and only receive calls from that station if desired. Loud, 800mW audio for noisy field operatons. One-touch access to the Yaesu WIRES-II™ VOIP Internet Linking System. Comes with 7.2V 1400mAh Ni-MH battery, flexible SMA antenna, wall charger and belt clip.
Dim: 2.4"w x 4.7"h x 1.3"d; 13.8 oz. . **CALL/WEB**

VX-177 5W 440 MHz FM HT– 5 TX 430-450 MHz, RX 420-470 MHz; 200 alpha memories. **CALL/WEB**

Available Accessories:
NIF QRVX170/177 Nifty quick reference card (VX-170 & VX-177 only), **NIF QRFT270R** Nifty quick reference card, **ADMSVX170** Programming software (VX-170 & FT-270R), **ADMSVX177** Programming software (VX-177 only), **CD26** Charger cradle, **CN3** BNC-SMA adapter, **CT91** Mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 "AA" cell battery case, **FNB83** 7.2V 1400mAh NIMH battery, **MH57A4B** Speaker mic, **MH73A4B** Submersible speaker mic, **NC88B** Extra wall charger, **VAC370** Rapid charger, **VC24** VOX headset, **VC27** Earpiece/mic

DUAL BAND HTs

FT-60R 144/440 MHz FM Dualband FM HT – Wide RX coverage. Augmenting the transceive on 144/430 MHz, there is RX coverage of VHF/UHF TV, VHF AM aircraft, and more: 108-137, 137-520 and 700-999 MHz (cell blocked). Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W; 1000+ memories with alphanumeric labels; Emergency Automatic ID (EAI) feature, for search-and-rescue operations. Split CTCSS/DCS and DCS encode-only capability; Enhanced Paging and Code Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; 9 DTMF auto-dialer memories; WIRES™ access key; Auto repeater shift; Auto-Range Transponder System (ARTS™); Rugged die-cast case, water-resistant; Comes with FNB-83 7.2V 1400Mah NiMH battery pack, NC-88B overnight charger, flexible SMA antenna, and belt clip.
Dim: 2.3"w x 4.3"h x 1.2"d; 13 oz..... **CALL/WEB**

Available Accessories:
NIF QRFT60R Nifty quick reference card, **ADMS1J** Windows software, **CN3** BNC-SMA adapter, **CT27** Cloning cable, **CT44** 2-pin speaker/mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter plug/wire only, **FBA25** 6 AA cell battery case, **FNB83** 7.2V 1400mAh NiMH battery, **MH34B4B** Speaker mic, **MH37A4B** Earpiece & mic, **NC88B** Extra wall charger, **VAC370** Rapid charger, **VC25** VOX headset

VX-3R Compact 2m/440MHz Dual Band FM HT – Covers 144-148 MHz and 430-450 MHz with wideband receive from 500 kHz to 999 MHz (less cellular). Includes 1.8 to 30 MHz with AM/FM/NFM/WFM modes so you can hear the AM, shortwave and FM broadcast bands, aircraft and public service channels. 1000 alpha memory system with special memory banks for Weather, Broadcast, VHF Marine and Shortwave Broadcast. The sub-RX feature allows listening to AM or FM radio stations while monitoring a HAM frequency which you can talk on instantly by hitting the PTT button. Power output with the supplied 1000 mA hour Lithium-Ion battery is 1.5W (VHF) and 1W (UHF). Using the optional EDC-21 DC adapter output increases to 3W (VHF) and 2W (UHF). Rugged aluminum die-cast chassis. CTCSS/DCS Encode/Decode with split tone capability; DTMF; Messaging; AM Band Bar Antenna; WIRES™-II Internet Key; Automatic In-Range Transponder (ARTS); FM Stereo Earphone Jack; CW Learning and Training; Mechanical Dial Lock; Internal temperature sensor. Comes with the FNB-82LI lithium-ion battery and NC-85B charger and SMA flexible antenna.
Dim: 1.9"w x 3.2"h x 0.9"d, 4.6 oz..... **CALL/WEB**

Available Accessories:
NIF QRVX3R Nifty quick reference cards, **ADMSVX3** Programming software, **CN3** BNC-SMA adapter, **CSC92** Soft case, **CT27** Cloning cable, **CT44** Two pin mic adapter (for older Yaesu mics), **EDC21** DC cigarette lighter cable with plug, **FBA37** Cell Holder (3 x AA), **FNB82LI** 3.7V 1000 mAh Lithium Ion battery, **MH34B4B** Speaker mic, **MH37A4B** Compact lapel mic with earphone, **VC25** VOX/PTT headset

TRI BAND HT

VX-6R 144/220/440 MHz Triple band Submersible FM HT – 5W power on 144/440 MHz and 1.5W on 220 Mhz; Wide receive coverage: 504 kHz – 998.990 MHz (cell blocked); 900 memory channels with 24 memory banks and two "Special Memory" groups; New "Wake-Up" feature checks for activity when the radio is turned off! Emergency Automatic ID (EAI) system; Four output power settings: 5/2.5/1/0.3W on 144/440 MHz, 1.5/1/0.5/0.2W on 222 MHz; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temperature sensor; WIRES™ internet-linking; The optional SU-1 barometric pressure sensor unit permits monitoring of sudden weather changes by monitoring atmospheric pressure. Comes with FNB-80LI 7.4V 1400mAh Li-Ion battery, NC-72B battery charger, flexible SMA antenna, belt clip, hand strap.
Dim: 2.3"w x 3.5"h x 1.1"d; 9.5 oz.... **CALL/WEB**

Available Accessories:
NIF QRVX6R Nifty quick reference card, **ADMSVX6** Programming software, **CD15A** Charger stand for NC72B, **CN3** BNC-SMA adapter, **CSC91** Soft case, **CT91** Mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter/plug/wire only, **FBA23** 2 AA cell battery case, **FNB80LI** 7.4V 1300mAh lithium-ion, **MH57A4B** Speaker/mic, **MH73A4B** Submersible speaker mic, **NC72B** Extra wall charger, **SU1** Altitude/barometric pressure sensor, **VC24** VOX headset, **VC27** Earpiece/mic

QUAD BAND HTs

VX-7R is silver (shown)
VX-7RB is black

VX-7R Ultra-Rugged, Submersible Magnesium FM HT – Quad-band HT With a full 5W output on 50, 144 and 440 MHz FM, 300mW output on 220 MHz. The rugged design allows the unit to be submersible at 3 ft. for 1/2 hour, and meets JIS-7 specification. 500 kHz to 999 MHz continuous receive (cellular blocked); Over 900 memories including 40 memory scan band limit and 10 weather; Built-in CTCSS/DCS enc/decode; "Split Tone" capability; Auto-Range Transponding System; User-changeable icons and fonts; Full-color strobe LED; Spectrum scope display; 24-hour clock; On/Off timers; WIRES™ internet-linking; Comes with FNB-80LI 7.4V 1300mAh lith-ion battery, NC-72B battery charger, dual section belt clip, silver case.
Dim: 2.4"w x 3.5"h x 1.1"d; 9.2 oz.
VX-7RB Same but black case... each **CALL/WEB**

Available Accessories:
NIF QRVX7R Nifty quick reference card, **ADMS1G** Programming software, **CD15A** Rapid charger for NC72B, **CN3** BNC-SMA adapter, **CSC88** Soft case, **CT91** Mic. adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter/plug/wire only, **FBA23** 2 "AA" cell battery case, **FNB80LI** 7.4V 1300mAh lithium-ion, **MH57A4B** Speaker/mic, **MH73A4B** Submersible speaker mic, **NC72B** Extra wall charger, **Q3000185** Replacement duck, **SU1** Altitude/barometric pressure sensor, **VC24** VOX headset, **VC27** Earpiece/mic

VX-8R Ultra-Rugged, Submersible APRS FM HT The Yaesu VX-8R provides a full 5 watts FM on 50/144/430 MHz plus 1.5 watts on 222 MHz. Wideband receive for 0.5-999.99 MHz (cell blocked). Over 1200 memory channels! It supports Blue Tooth hands-free operation with the optional Yaesu Bluetooth kit (coming soon). There is also an optional GPS unit and antenna with loads of features. This radio supports APRS 1200/9600 bps data communication (B band only). The VX-8R is submersible and meets IPX57 specifications (3 feet for minimum of 30 minutes). A powerful 7.4 V 1100 mAh Li-Ion battery is included. Dual Ham band Operation (V+V/U+U/V+U) while listening to AM/FM Broadcasts. It has weather band receive with Weather Alert. A barometric & temperature sensor is included. The dot matrix LCD display provides Memory tag up to a maximum of 16 characters. You even get a high-resolution Spectrum Analyzer with ±60 channels indication with wave monitoring of received/modulated signal! And DCS/CTCSS encode & decode is standard.
Dim: 2.36"w x 3.74"h x 0.92"d; 8.5 oz. **CALL/WEB**

Available Accessories:
NIF MMVX8R Nifty mini manual & reference card combo, **ADMSVX8** Programming software w/USB cable, **BTK4** Bluetooth kit, **BU1** Bluetooth radio adapter, **CD40** 3 hour bluetooth charge cradle, **CD41** Rapid charge cradle, **CN3** BNC-SMA adapter, **CSC93** Soft carrying case, **CT131** Mic adapter, **CT134** Cloning cable, **CT136** GPS antenna adapter, **EDC5B** DC adapter/filter, **EDC6** DC cord/plug/wire only, **FBA39** 3 "AA" cell battery case, **FEP4** Other earphone for bluetooth, **FGPS2** GPS antenna unit, **FNB101LI** 7.4V 1100mAh li-ion, **FNB102LI** 7.4V 1800mAh lit-ion, **MH74A7A** Waterproof speaker/mic, **NC85B** Battery charger for CD40

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Heavy-Duty FM Dual Band Mobile with Exceptionally Wide Receiver Coverage*

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*Separation Kit for Remote Mounting (optional separation kit YSK-7900 required)

2 m/70 cm DUAL BAND

2 m/70 cm DUAL BAND FM TRANSCEIVER
FT-7900R new

The King of Mobile

75 WATTS

HEAVY-DUTY 75 W 2 m FM TRANSCEIVER
new **FT-2900R** 2 m MONO BAND

Commercial Grade Field Radio Submersible Construction

Best Selling, Reliable Mobile

55 WATTS

ULTRA RUGGED 55 W 2 m FM TRANSCEIVER
new **FT-1900R** 2 m MONO BAND

VHF FM 5 W COMPACT HANDHELD TRANSCEIVER
FT-270R 2 m MONO BAND new

Compact Field Radio with Top Mounted LCD and Loud Audio

2 m MONO BAND new

ULTRA-COMPACT 5 W 2 m FM HANDHELD TRANSCEIVER
FT-250R

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HF RADIOS

MAUFACTURER	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD
MODEL	IC-703PLUS*	IC-706MkIIG*	IC-7000*	IC-718	IC-7200	IC-746PRO	IC-756PROIII	IC-7600	IC-7700	IC-7800	TS-2000, TS-B2000 TS-2000X	TS-480HX*	TS-480SAT*
BANDS	HF, 6M	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF	HF, 6M	HF, 6M, 2M	HF, 6M	HF, 6M	HF, 6M	HF, 6M	HF, 6M, 2M 70CM, 1.2GHz*	HF, 6M	HF, 6M
RX RANGE (Mhz)	0.03-30 30-60	0.03-200 400-470	0.03-199 400-470	0.03-30	0.03-60	0.03-60 108-174	0.03-60	0.03-60	0.03-60	0.03-60	0.03-60, 142-152 420-450 1240-1300*	0.03-60	0.03-60
POWER (SSB/CW/FM)	0.1-5W @ 9.6V 0.1-10W @ 13.8V	5-100 HF/6M 5-50 2M 2-20 70CM	2-100 HF/6M 2-50 2M 2-35 70CM	5-100W(4)	2-100W(4)	5-100W	5-100W	2-100W	5-200W	5-200W	100W HF/6/2M 50W 70CM 10W 1.2GHz*	200W HF/6M	100W HF/6M
POWER (AM)	0.1-2W @ 9.6V 0.1-4W @ 13.8V	2-40W HF/6M 2-20W 2M 2-8W 70CM	1-40W HF/6M 2-20W 2M 2-14W 70CM	2-40W	1-40W	5-40W	5-40W	1-30W	5-50W	5-50W	25W HF/6/2M 12.5W 70CM 2.5W 1.2GHz*	5-50W	5-25W
DSP	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TUNER	YES	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	YES	YES	YES	YES	YES	YES	NO	YES
KEYER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	OPTIONAL	OPTIONAL	YES	OPTIONAL	YES	OPTIONAL	OPTIONAL	YES	YES	YES	OPTIONAL	OPTIONAL	OPTIONAL
VOX	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER REQUREMENT	9-15.8VDC 2/3A	12VDC 20A	12VDC 22A	12VDC 20A	12VDC 22A	12VDC 23A	12VDC 23A	12VDC 23A	BUILT-IN	BUILT-IN	12VDC 20.5A	12VDC 41A	12VDC 20.5A
ANTENNA PORTS	1	2(2)	2(2)	1	1	3(3)	2	3(7)	5(1)	4	5	2	2
COMPUTER PORT	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	USB	OPTIONAL	OPTIONAL	OPTIONAL	RS-232	RS-232	RS-232	RS-232	RS-232
HEIGHT (IN)	2.3	2.3	2.59	3.75	3.75	4.7	4.3	4.56	5.9	5.9	3.75	2.4	2.4
WIDTH (IN)	6.56	6.6	6.56	9.44	9.44	11.3	13.3	13.37	16.7	16.6	10.63	7	7
DEPTH (IN)	7.87	7.9	7.09	9.4	11.06	12.5	11.2	11	17.1	17.1	12.5	10.2	10.2
WEIGHT (LBS)	4.4	5.5	5.1	8.4	12.1	19.5	21	22	52.9	55	17.19	8.15	8.15

* Remotable control head
* Optional module required for TS-2000, and B versions
(1) 4 SO-239, 1 BNC
(2) HF/6M one port, 2M/440MHz second port
(3) Two ports for HF, one dedicated for 2M
(4) No FM
(5) On internal batteries: 20W (10W on 70cm)
(6) On internal batteries: 5W (2.5W on 70cm)
(7) Two SO-239 TX/RX, one RCA RX only

HF RADIOS

MAUFACTURER	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	YAESU	YEASU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU
MODEL	9015	9020	9030	9040	9410X	9420X	9440X	9475X	FT-817ND	FT-857D	FT-897D	FT-450 FT-450AT	FT-950	FT-2000	FT-2000D	FTDX-9000 SERIES
BANDS	15M	20M	30M	40M	10M	20M	40M	75M	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF, 6M	HF, 6M	HF, 6M	HF, 6M	See pages 34 & 36 or go to Yaesu's Website: WWW.YAESU.COM
RX RANGE (Mhz)	21-21.2	14-14.075	10.1-10.15	7.0-7.5	28.3-28.6	14.15-14.35	7.15-7.3	3.75-4	0.1-56 76-154 420-470	0.1-56, 76-108 118-164 420-470	0.1-56, 76-108 118-164 420-470	0.03-56	0.03-56	0.3-60	0.3-60	
POWER (SSB/CW/FM)	5W CW	5W CW	5W CW	5W CW	20W SSB PEP	20W SSB PEP	12W SSB PEP	12W SSB PEP	5W SSB/CW/FM	100W HF 50W 2M 20W 70CM	100W HF/6M(5) 50W 2M 20W 70CM(5)	100W	100W	100W	200W	
POWER (AM)	NO	NO	NO	NO	NO	NO	NO	NO	1.5W	25W HF 12.5W 2M 5W 70CM	25W HF/6M(6) 12.5W 2M(6) 5W 70CM(6)	25W	25W	2-25W	5-50W	
DSP	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	
TUNER	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	OPTIONAL YES	YES	YES	YES	
KEYER	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	
SPEECH READOUT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	
VOX	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	
POWER REQUREMENT	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 2A	12VDC 22A	12VDC 22A	12VDC 22A	12VDC 22A	12VDC 22A	50VDC @ 12A 12VDC @ 6A	
ANTENNA PORTS	1	1	1	1	1	1	1	1	2	2(2)	2(2)	1	2	2	2	
COMPUTER PORT	NO	NO	NO	NO	NO	NO	NO	NO	CT-62 REQUIRED	CT-62 REQUIRED	CT-62 REQUIRED	YES	YES	RS-232	RS-232	
HEIGHT (IN)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.5W	2	3.14	3.3	4.5	5.3	5.3	
WIDTH (IN)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.3	6.1	7.9	9	14.4	16.1	16.1	
DEPTH (IN)	6	6	6	6	6	6	6	6	6.5	9.2	10.3	8.5	12.4	13.8	13.8	
WEIGHT (LBS)	2	2	2	2	2	2	2	2	2.6	4.6	8.6	7.9	28.7	32	34	

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(1) Manufactuer only guarantees specs within the ham bands
(2) There are gaps in non-voice or data portions in certain bands
(3) FT-8900R includes 10M/6M as well
(4) Control head separate from body

All radios are cellular blocked

SINGLE BAND MOBILES

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	KENWOOD	MFJ	MFJ	MFJ	MFJ	YAESU	YAESU	YAESU	YAESU
MODEL	DR-03T	DR-06T	DR-135TMKIII, DR-135TPMKIII	DR-235TMKIII	DR-435TMKIII	IC-2200H	IC-V8000	ID-1(4)	TM-271A	8621	8621X2	9402X	9406X	FT-1802M	FT-1900R	FT-2800M	FT-2900R
TX RANGE (MHz)	28-29.695	50-53.995	144-148	222-224.995	430-449.995	144-148	144-148	1240-1300	144-148	145.01	144.39	144-144.3	50-50.3	144-148	144-148	144-148	144-148
RX RANGE (MHz)	28.29.695	50-53.995	118-174	216-279.995	350-511.995	118-174	136-174	1240-1300	136-174	145.01	144.39	144-144.3	50.3	136-174	136-174	137-174	136-174
AIRCRAFT RX	NO	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	10/5/1W	50/20/5W	50/10/5W	25/10/5W	35/10/5W	65/25/10W	75/25/10/5W	10/1W	60/25W	5W	5W	7W SSB	10W SSB	50/25/10/5W	55/25/10/5W	65/25/10/5W	75/30/10/5W
TTP MICROPHONE	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	NO	NO	YES	YES	YES	YES
TONE ENCODE	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES	YES/DCS	NO	NO	NO	NO	YES/DCS	YES/DCS	YES/DCS	YES/DCS
TONE DECODE	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES	YES/DCS	NO	NO	NO	NO	YES/DCS	YES/DCS	YES/DCS	YES/DCS
MEMORIES	100	100	100	100	100	207	207	100	200	0	0	0	0	221	221	221	221
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES	YES	YES
PC PROGRAMMABLE	TBD	TBD	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES	YES	TES
13.8V DC@	3A	11A	11A	8A	10A	15A	15A	7A	13A	>1A	>1A	2A	3A	10A	11A	10A	15A
ANTENNA CONNECTOR	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	TYPE-N	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239
HEIGHT (IN) (HEAD)	1.57	1.57	1.6	1.6	1.6	1.6	2	1.6 (2)	1.7	1.5	1.5	2.5	2.5	1.6	1.6	2	2
WIDTH (IN)	5.85	5.85	5.6	5.6	5.6	5.5	5.9	5.6 (5.9)	6.3	5	5	6.5	6.5	5.6	5.8	6.3	6.3
DEPTH (IN)	6.83	6.83	6.9	6.9	6.9	7.1	5.9	6.5 (1.9)	5.4	5	5	6	6	5.8	5.8	7.3	7.3
WEIGHT (LBS)	2.21	2.21	2.3	2.3	2.3	2.75	2.22	2.6 (0.5)	2.6	0.8	0.8	2	2	2.6	2.6	4	4.2

MULTI BAND MOBILES

MANUFACTURER	ALINCO	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	YAESU	YAESU	YAESU	YAESU	YAESU
MODEL	DR-635T	IC-208H	ID-800	ID-880H	IC-2820H	TM-V71A	TM-D710A(4)	FTM-10R	FTM-10SR(4)	FT-7900R	FT-8800R	FT-8900R
TX RANGE (Mhz)(1)	144-148 430-450	144-148 440-450	144-148 420-450	144-148 430-450	144-148 430-450	144-148 430-450	144-148 438-450	144-148 430-450	144-148 430-450	144-148 430-450	144-148 430-450	28-29.7, 50-54 144-148 430-450
RX RANGE (Mhz)(1)	87.5-108 108-174(5) 335-480	118-174 230-550 810-999	118-173 230-550 810-999	118-174 230-550 810-999	118-549.99 (LEFT) 118-173.99, 375-549.99 810-990.99 (RIGHT)	118-154 (A BAND) 136-524 800-1300 (B BAND)	118-470 (A BAND)(2) 136-175, 300-524 800-1300 (B BAND)(2)	0.5-1.8 76-222 300-999	0.5-1.8 76-222 300-999	108-520 700-999	108-520 700-999	28-29.7, 50-54 108-180 320-480, 700-985
SINGLE OR DUAL RX	DUAL	SINGLE	SINGLE	SINGLE	DUAL	DUAL	DUAL	DUAL	DUAL	SINGLE	DUAL	DUAL
POWER (2M)	50/25/5W	55/15/5W	50/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	50/20/5W	10/3/0.5W	50/20/10/5	50/20/10/5W	50W(3)
POWER (440 MHz)	35/20/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	40/20/5W	7/3/0.5W	45/20/10/5W	35/20/10/5W	35W
MEMORIES	200	500	500	1052	522	1000	1000	500	500	1000	1000	800
TONE ENCODE	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
TONE DECODE	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
DUPLEXER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CROSS-BAND REPEAT	YES	NO	NO	NO	YES	YES	YES	NO	NO	NO	YES	YES
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9600B COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SEPARABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
HEIGHT (IN) (HEAD)	1.6	1.6	1.6	1.6	1.65 (1.25)	1.7	1.7 (2.8)	1.5	1.1 (1.5)	1.6	1.6	1.6
WIDTH (IN)	5.5	5.6	5.6	5.9	5.9 (5.9)	5.5	5.6 (6.2)	4.4	5.1 (4.4)	5.5	5.5	5.5
DEPTH (IN)	7.3	7.3	7.3	7.8	7.4 (2.6)	7.1	6.3 (2.2)	7	3.2 (1.6)	6.6	6.6	6.6
WEIGHT (LBS)	2.2	2.7	2.7	2.9	3.3 (0.46)	3.3	2.6 (0.6)	2.9	1 (0.5)	2.2	2.2	2.2

Links to Manufacturer's Websites at aesham.com

SINGLE BAND HANDHELDS

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	KENWOOD	YAESU	YAESU	YAESU	YAESU
MODEL	DJ-S11T	DJ-V17T	DJ-175T	DJ-V27T	DJ-V47T	DJ-S45T	IC-V8SPORT	IC-V85	IC-V82	IC-U82	TH-K2AT	VX-150	FT-250R	FT-270R	VX-177
TX RANGE (MHz)	144-148	144-148	144-148	222-225	430-450	420-450	144-148	144-148	144-148	420-450	144-148	144-148	144-148	144-148	430-450
RX RANGE (MHz)	144-148	130-174	136-174	216-249.995	410-470	420-474	136-174	136-174	136-174	400-479	136-174	140-174	136-174	136-174	420-470
AIRCRAFT RX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	340mW	5W	5W	5W	4.5W	500mW	5.5W	7W	7W	5W	5W	5W	5W	5W	5W
TOUCH-TONE PAD	NO	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
TONE ENCODE	YES	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
TONE DECODE	YES	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
MEMORIES	21	200	200	200	200	100	100	107	200	200	100	200	209	200	200
ALPHANUMERIC	NO	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	AA	NI-MH	NI-MH	NI-MH	NI-MH	AA	AA	LITH-ION	NI-CAD	NI-CAD	NI-MH	NI-CAD	NI-MH	NI-MH	NI-MH
PC PROGRAMMABLE	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ANTENNA CONNECTOR	FIXED(1)	SMA	SMA	SMA	SMA	SMA	BNC	BNC	BNC	BNC	SMA	SMA	SMA	SMA	SMA
HEIGHT (IN)	3.9	4.33	4.23	4.33	4.33	3.86	5.2	4.34	5.5	5.5	4.4	4.3	4.3	4.7	4.7
WIDTH (IN)	2.2	2.28	2.28	2.28	2.28	2.24	2.1	2.2	2.1	2.1	2.4	2.3	2.3	2.4	2.3
DEPTH (IN)	1.1	1.43	1.43	1.43	1.43	1.17	1.4	1.35	1.4	1.4	1.1	1	1	1.3	1.2
WEIGHT (OZ)	6.5	9.9	8.7	9.9	9.9	5.7	12.3	12.5	13.8	13.8	12.5	11.5	12.4	13.8	13.8

Links to Manufacturer's Websites at aesham.com

MULTI BAND HANDHELDS

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	YAESU	YAESU	YAESU	YAESU	YAESU
MODEL	DJ-596TMKII	DJ-C7T	DJ-V5TH	DJ-G7T	IC-T7H SPORT	IC-T90A	IC-91A / AD	IC-80AD	IC-92AD	TH-F6A	FT-60R	VX-3R	VX-6R	VX-7R / RB	VX-8R
TX RANGE (MHz)	144-148 420-450	144-148 420-450	144-148 438-450	144-148 430-450 1240-1300	144-148 440-450	50-54 144-148 430-450	144-148 420-450	144-148 420-450	144-148 420-450	144-148 222-225 430-450	144-148 430-450	144-148 430-450	144-148 222-225 430-450	50-54, 144-148 222-225 430-450	50-54, 144-148 222-225 430-450
RX RANGE (MHz)	136-174 400-512	88.1-174 380-512	76-999	0.530-1300	118-174 400-470	0.495-999.99	0.495-999.99	0.495-999.99	0.495-999.99	0.1-1300	108-520 700-999	0.5-999	0.5-999	0.5-16 48-730 800-900	0.5-999.999
SINGLE/MULTI RX	SINGLE	SINGLE	SINGLE	FULL DUPLEX	SINGLE	SINGLE	DUAL	DUAL	DUAL	DUAL	SINGLE	SINGLE	SINGLE	DUAL	DUAL
AIRCRAFT RX	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER OUTPUT	5W	300mW	5W	5/4.5/1W	2W(2)	5W	5W	5W	5W	5W	5W	1.5W (1W/440)	5W (1.5W/222)	5W (300mW/222)	5W (1.5W/222)
MEMORIES	100	200	200	1000	70	555	1304	1052	1304	435	1000	1000	900	900	1267
TONE ENCODE	YES/DCS	YES	YES	YES/DCS	YES	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
TONE DECODE	YES/DCS	YES	YES	YES/DCS	YES	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
TOUCH-TONE PAD	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES
ALPHANUMERIC	YES	NO	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABL	YES	YES	NO	YES	YES	YES	PC CONTROL	YES	PC CONTROL	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-CAD	LI-ION	NI-CAD	LI-ION	AA	LI-ION	LI-ION	LI-ION	LI-ION	LI-ION	NI-MH	LI-ION	LI-ION	LI-ION	LI-ION
ANTENNA CONN.	BNC	SMA	SMA	SMA	BNC	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.9	3.8	3.8	4.5	4.8	3.4	4.1	4	4.4	3.4	4.3	3.2	3.5	3.5	3.74
WIDTH (IN)	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.9	2.3	2.3	2.36
DEPTH (IN)	1.6	0.6	1.3	1.1	1.1	1.2	1.3	1.3	1.3	1.2	1.2	0.9	1.1	1	0.92
WEIGHT (OZ)	13.2	3.6	12	9.5	14.3	8.5	10.6	10.3	11.2	8.8	13	4.6	9	9.2	8.5

(1) Folding ant. attached
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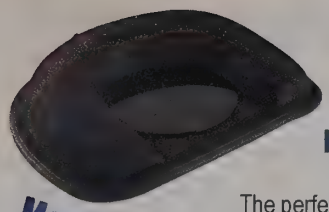

LM-25 Bean Bag Dash Mount

The perfect solution for when the use of windshield suction cup mounts are prohibited. Open design allows for full viewing of your device. Safety loop included. Bean bag only.

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LM-100 Vent Mount

For remote heads. Installs or removes in seconds.

LM-300 Floor Mount

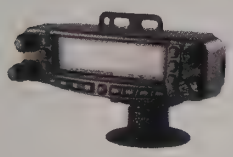
15" gooseneck attaches to seat bolt for perfect positioning.

LM-200EXP Visor Mount

Easily hooks over visor. Installs or removes in seconds.

LM-900BG The Bug

Low profile design, flexible mounting pad.



LM-600 LoBoy

Low profile design, flexible mounting pad.

LM-700

Ultimount - universal mount for remote heads.

LM-801EXP Cup Holder Mount

Great for HT or remote heads.

LM-1200 Vent Mount Mic/HT Hanger

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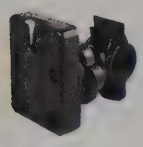

LM-1000EXP Bicycle/Motorcyle Mount

Easily attaches to handlebars.

LM-1100 Motorcycle Mount

Made of marine grade aluminum. Great for outdoor use.

LM-500H Low Vibration Mount

Multidirectional. Mounts to dash with flexible mounting pad or to windshield with super strong suction cup.

LM-100 Vent Mount with LM-H Side Grip Holder

Can handle devices from $1\frac{7}{8}$" to $4\frac{1}{4}$" in height.

LM-400EXP Window Mate

360° swivel for optimal viewing. Installs or removes in seconds.

LM-2500H Bean Bag w/Dash Mount & Side Grip Holder

LM-25 Bean Bag combined with LM-500H Low Vibration Mount.

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MFJ Power Supplies & Accessories

Economically Power your Station Equipment and Accessories with one of these **MFJ MightyLite™ or Compact** Switching Power Supplies!

Small • Super Lightweight • Rugged • No RF Hash or Noise!

4125

4225MV

4245MV

Small – *MightyLites™* are so small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky power supplies.

Lightweight – The 25 Amp *MightyLites™* weigh in at under 4 lbs. which is 4 to 5 times lighter than an equivalent conventional design power supply. The 45 Amp model is just 5.5 pounds!

No RF Hash – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But these babies are clean!

Low Ripple and Highly Regulated – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

Fully Protected – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.

Worldwide Versatility – Switchable AC input voltage handles 85-135 or 170-260VAC.

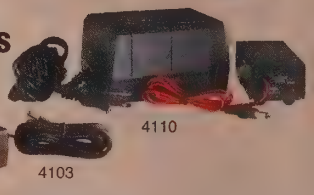
Mighty Features – Model **4225MV** and **4245MV** feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way heavy-duty binding posts and cigarette lighter socket for mobile accessories. The **4245MV** has two sets of quick-connects on the rear for accessories. Dual 3 in. illuminated meters monitor load voltage and current. Internal fan.

4125 (left) – Basic, no metering. 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5"w x 2.5"h x 2.5"d; 3.5 lbs. **$109.99**

4225MV (center) – 25 Amps max. or 22 Amps continuous. Dim: 5.75"w x 4.5"h x 6"d; 3.7 lbs. **$149.99**

4245MV (right) – 45 Amps max. or 40 amps continuous. Dim: 7.5"w x 4.75"h x 9"d; 5.5 lbs. **$199.99**

Compacts for QRP



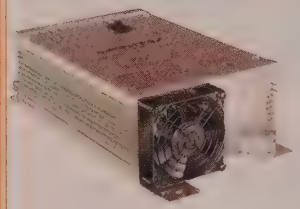
4110

4103

4103 Compact Switching Power Supply – For Yaesu FT-817, other QRP rigs and MFJ accessories. Input: 100-240VAC, Output: 13.8 VDC @ 2.89 Amps. Over-voltage, over-current, and over-temperature protected. Includes output cable with a 2.1 mm plug and adapter cable for FT-817. Dim: 2.63"w x 1.38"h x 4.13"d; 10 oz. **$49.99**

4110 Compact AC Power supply – Includes a 2.9 Amp AC wall adapter and 13.8VDC Power Module. Perfect for QRP transceivers. **$59.99**

AMERITRON 75 Amp Switching Power Supply



SPS-75 – Power 500W solid-state amplifiers like the AMERITRON ALS-500M, SGC SG-500 and other high current devices. Rated at **75 Amps** output continuously with less than 100mV peak-to-peak ripple under 75 Amp full load and regulation better than 1.5%. Has reverse polarity protection, brown out input protection, over-current and over-temperature protection. A quiet thermal-controlled fan keeps it cool. The *Output Boost* feature steps up output voltage from 13.8 to 14.2 VDC to compensate for power cable and connector loss. Input 108-132 VAC, 50/60 Hz (11 Amps). Can be used to conveniently charge vehicle and emergency back-up batteries. Dim: 6.5"w x 3.5"h x 10"d; lightweight, 7.8 lbs. **$359.99**

Conventional 30 Amp Power Supply

- **Conventional, non-switching**
- **Massive 19.2 lb. transformer**
- **Adjustable 1 to 14 VDC**
- **Dual front panel meters**

4035MV Super Heavy Duty! Excellent for powering all types of amateur transceivers and accessories. Easily delivers 30 Amps continuous (35 Amps maximum) with regulation better than 1% and ripple voltage less than 30mV. Over-voltage, fold back and short circuit protected and variable-speed fan cooled. Plenty of connections – 3 sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, 2 pairs of quick-connects for accessories and a cigarette lighter socket for mobile accessories. Dim: 9.5"w x 6 "h x 9.75"d; 20.6 lbs. **$149.99**

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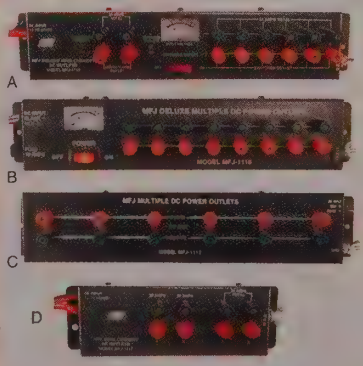
This includes Ameritron, Hy-Gain, Mirage & Vectronics.

MFJ High Current DC Multi-Outlet Strips



Distributes high current 12V DC power for radios and accessories from your station's main DC power source. Keeps everything neat, organized and safe by keeping wires from tangling and shorting out. All outlets fused, switched and RF bypassed.

1118 (A) Deluxe Multiple DC Power Strip – Distribute 12V DC to (2) radios and (6) or more accessories. Provides (2) pairs of heavy-duty 30 Amp, 5-way binding posts, all fused and RF bypassed, and (6) pairs of 15 Amp 5-way binding posts for accessories. Master fuse, on-off switch with power LED, built-in 25V voltmeter, 6 ft. 8 ga. cable. Dim: 12.5"w x 2.75"h x 2.5"d. **$84.99**

1116 (B) – Like the 1118 but without 30 Amp posts..... **$59.99**

1112 (C) – Similar to the 1116 but without on-off switch, power LED, voltmeter or fuse. Dim: 12.5"w x 2.75"h x 2.5"d. **$44.99**

1117 (D) – Like the 1118 but without meter, power LED or on-off switch. Powers up to (4) radios with (2) 35 Amp single posts and (1) 35 Amp dual post. Dim: 8"w x 2"h x 3"d. **$64.99**

ASTRON CORPORATION POWER SUPPLIES

The Low Cost alternative to those "matching" Power Supplies

Input: 105–125V AC, Output: 13.8V DC, Internally adjustable from 11–15VDC.

Solid-state electronically regulated with fold-back current limiting and crowbar overvoltage protection. Heavy-duty heat sink. Three-wire AC power cord cord and chassis mounted fuse. One-year warranty– made in USA.

RS-20M, 35M, 50M and **70M have** separate Volt and Amp meters. **VS-20ML, VS-35M** and **VS-50M** have separate V/A meters, plus 2-15VDC voltage adjustment. **RM-35M, RM-50M** and **RM-60M** are Rack Mount with separate V/A meters.

MODEL	Cont. Amps	ICS Amps	Dim: h w d (in.)	Shipping weight	PRICE
RS-7A	5	7	3.75 x 6.5 x 9	9#	$69.99
RS-10A	7.5	10	4 x 7.5 x 10.75	11#	79.99
RS-12A	9	12	4.5 x 8 x 9	13#	89.99
RS-20A	16	20	5 x 9 x 10.5	18#	99.99
RS-35A	25	35	5 x 11 x 11	27#	159.99
RS-50A	37	50	6 x 13.75 x 12	46#	229.99
RS-70A	57	70	6 x 13.75 x 12	48#	299.99
Separate Volt & Amp meters					
RS-20M	16	20	5 x 9 x 10.5	18#	129.99
RS-35M	25	35	5 x 11 x 11	27#	179.99
RS-50M	37	50	6 x 13.75 x 11	46#	259.99
RS-70M	57	70	6 x 13.75 x 12	48#	329.99
Adjustable output; separate Volt & Amp meters					
VS-20ML	16	20	5 x 9 x 10.5	20#	149.99
VS-35M	25	35	5 x 11 x 11	29#	209.99
VS-50M	37	50	6 x 13.75 x 11	46#	279.99
Rack mount; separate Volt & Amp meters					
RM-35M	25	35	5.25 x 19 x 12	38#	269.99
RM-50M	37	50	5.25 x 19 x 12	50#	319.99
RM-60M	50	55	7 x 19 x 12	60#	429.99

SWITCHING POWER SUPPLIES

- Heavy Duty Design
- Low Profile
- Lightweight

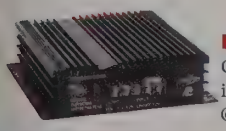
SS-25 – 12V DC, 25 Amps ICS, 20Amps continuous. Dim: 3"h x 7"w x 9.5"d; 4.2 lbs..... **$129.99**

SS-25M – Same as above but with Volt and Amp meters (pictured above). **$149.99**

SS-30 – 12V DC, 30 Amps ICS, 25 Amps continuous. Dim: 3.75"h x 7"w x 9.5"d; 4.5 lbs... **$139.99**

SS-30M Same with Volt/Amp meters... **$159.99**

POWER INVERTERS



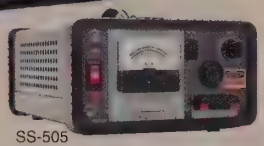
N2412-12 28V Aircraft Converts 22 to 32V DC input to 13.8V DC output @ 10 amps. Eliminates tapping into 28V battery for 12V devices.. **$59.99**

N2412-24 – Same as above, rated at 20A. **$89.99**

SWITCHING POWER SUPPLIES

SS-330W

DAIWA



SS-505

SS-330W Regulated, Variable Switching Power Supply – Provides 5 to 15 VDC at 30 amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Green power/Red protection LEDs; Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2"w x 4"h x 10.5"d; 4.3 lbs..... **$169.99**

SS-505 Regulated, Variable Switching Power Supply – Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15 VDC at 50 amps continuous (55A max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Green power/Red Protection LEDs; Carrying handle; Built-in automatic fan. Dim: 9"w x 5"h x 12.5"d; 8.4 lbs..... **$399.99**

DIAMOND ANTENNA

SWITCHING POWER SUPPLIES

GZV-4000 Switching Mode DC Power Supply with Built-in Speaker – 120V AC input with variable output 5 to 15V DC (knob has center detent at 13.5V DC), rated at 40 Amps continuous @ 100% duty cycle. Over temperature, overload and short-circuit protection with current foldback at approximately 42 Amps. Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line. Dim: 8.25"d x 13"w x 4.5"h, 8 lbs. . **$179.99**

GZV-6000 Switching Mode DC Power Supply with Built-in Speaker – Looks and features similar to GZV-4000 above but heavier rating. Voltage variable 1-15V DC, 60 Amps, 12.8 lbs.... **$369.99**

AIM

Light Duty POWER SUPPLIES

38-384

Light-duty DC Supply (right) – Input: 115 V AC; Output: 13.8V DC regulated @ 4 Amps. Front On/Off, binding posts and LED indicator. Fused. Dim: 7.75"d x 4.75"w x 3"h; 5.5 lbs. C/O **$59.99**

38-305

Universal AC/DC Adapter (left) – Plug into outlet. Switchable, converts 115V AC to 3, 4.5, 6, 7.5, 9 or 12V DC @ 500 ma. max. Includes seven different DC adapter plugs, including one for Sony products..... **$14.99**

SAMLEX AMERICA

SWITCHING POWER SUPPLIES

The "Power Supply choice of radio manufacturers worldwide"

SEC-1223 23A Switching Power Supply – The perfect lightweight companion for 100 Watt-Class transceivers. Input: 110-120VAC, Output: 13.8VDC @ 23 Amps. UL approved. Also works on 200 to 240VAC input with a simple jumper change. Safety features include current limiting, short circuit and overvoltage protection. Quiet, thermal activated cooling fan.

3-year warranty – "no questions asked"

Dim: 7"w x 2.1"h x 7.1"d; 3.3 lbs..... **$99.99**

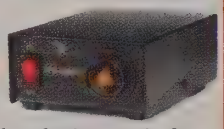
SEC-1235M – This unit has the same dimensions as model SEC-1223 above. 100-130VAC, 13.8VDC.

- Best power supply value available today
- 30 Amps continuous, 35 Amps intermittent
- **3 year warranty** – "no questions asked"
- Thermal activated fan. **No hash**
- UL + cUL Safety approved, FCC compliant
- Fully protected – voltage, current, short-circuit
- Perfect for all 100-200 Watt applications

Dim: 7"w x 2.1"h x 7.1"d, 4 lbs. **$139.99**

SEC-1235 – Same as to 1235M above, but without Volt and Amp meters. **$119.99**

SPS-1204UL



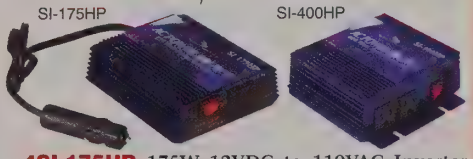
Switching Power Supply

Small and lightweight. Provides highly regulated power to a cigar lighter socket on the front panel and wire terminals on rear. Input: 110-125VAC, 13.8VDC output @ 3.5 Amps. Over-voltage protection and current limiting, illuminated on/off switch, UL and cUL approved. Dim: 2"h x 4"w x 6.3"d; 2 lbs. .. **$29.99**

DC to AC POWER INVERTERS

Modified sine wave

SI-175HP SI-400HP

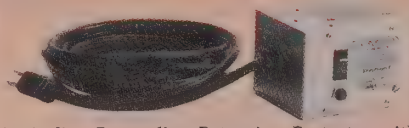


4SI-175HP 175W 12VDC to 110VAC Inverter Useful anywhere when 110VAC isn't available in boats, RVs, emergency, etc. Uses high efficiency switching mode design with modified sine wave output voltage and low idle power draw (<0.05A). Overload protection, low battery alarm and shut down. Cigar lighter plug 10-15VDC input, 115V RMS output at 175W continuous, 350W surge. Dim: 1.6"h x 4.7"w x 5.4"d; 1.8 lbs..... **$29.99**

SI-400HP 400W 12VDC to 115 VAC Inverter Similar to the SI-175HP above, but higher 400W rating. Cigar lighter plug input connector and battery clamp included. Input Voltage: 10-15 VDC, 115V RMS output; 400W continuous, 800W surge. Dim: 2.4"h x 6.3"w x 6.3"d; 2.9 lbs..... **$49.99**

POWER LINE SURGE SUPPRESSORS

PolyPhaser CORPORATION



An in-line Power line Extension Protector with multi-strike capability, filtering and proper grounding for a 120V AC line. Two grounded outlets, power switch, and circuit breaker.. Heavy duty all aluminum grounded enclosure and power cord. Dim: 4.75 in. wide.

PLDO-120US20A – 6 ft. cord, 20A. **$199.99**

ISOBAR-8 ULTRA Premium Surge, Spike and Noise Suppressor – 8 widely spaced outlets in 4 isolated filter banks provide a massive 1,200 joule, 96,000 Amp spike suppression and isolation between connected equipment. Rugged all metal housing won't break or burn. Diagnostic LEDs confirm power availability, line fault and protection status. Lighted On/Off switch and 15 Amp circuit breaker. Includes 12 ft. AC line cord with space-saving angled input plug, keyhole mounting tabs and child safety covers. Dim: 7.25"W x 2.25"h x 3.5"d. **$79.99**

SUPER-7 Protect it™ Surge Protector – 7 outlets including 3 transformer outlets. 2350 joule rating, handles strongest surges. On/Off switch, circuit breaker, *"Connected"* & *"Grounded"* LEDs, 7 ft. cord with right angle plug. **$19.99**

SUPER-7+TEL – Same, but with additional surge protection for modem, fax or telephone.. **$29.99**

AMERITRON

In-Rush Current Protector

Limits initial Power On in-rush current and absorbs momentary voltage spikes.

ICP-120 (110-120V) or

ICP-240 (220-240V) .. **$79.99**

POWER PLUGS / ADAPTERS

VANCO

P-212 2-Outlet Cigarette Plug Adapter – Allows use of two 12V accessories from 1 outlet. **$4.99**

P-212B Dual Cigarette Socket – Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse. **$8.99**

P-12R 2-Contact Cigarette Plug – Solder type with strain relief and grip end. **$2.99**

P-12V Cigarette Plug – Cigarette lighter plug similar to 12R but with connecting leads. **$2.99**

P-12X Cigarette Lighter Plug – Easy to use solderless plug. Wires crimp to terminals. **$1.99**

NCG™ COMPANY

Power Pocket

Portable Power for emergencies, hamfests, hiking, etc. The 12V @ 2 Amp/hour sealed lead-acid rechargeable battery provides up to 6x longer talk time than standard packs. Recharges completely in 6 to 8 hours with supplied charger. Partial discharges can be recharged to 100% without memory effect. Radio conveniently plugs into included female adapter socket. Includes a compact carrying case with belt loop and shoulder strap. Dim: 3.5"w x 1"d x 6.5"h, 30 oz... **$72.99**

RECHARGEABLE BATTERIES

- Maximum life
- Memory-free operation
- Rechargeable hundreds of times
- Excellent for high current applications

MAHA Rechargeables

MH-R-AA4 – 4 pack of 1.2V 2700mAh rechargeable AA NiMH batteries in plastic case..... **$16.99**

MFJ SuperCell

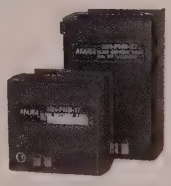
MFJ Rechargeables

92AA01 – NiMH AA's ..... each **$3.49**

92AA10 – Same as above.....10-pack **$29.99**

REPLACEMENT PACKS

MAHA's replacement battery packs can increase your hand-held's performance up to two times.



For ICOM Handhelds

MHBP-173 9.6V 650mAh NiMH..... **$69.99**
MHBP-180 7.2V 1000mAh NiMH..... **$49.99**
MHBP-200 9.6V 680mAh NiMH/clip... **$59.99**
MHBP-211LI 7.4V 1800mAh Li-ION. C/O **$49.99**
MHBP-7 13.2V 1000mAh NiMH..... **$69.99**
MHBP-8 8.4V 1300mAh NiMH..... **$59.99**

For YAESU Handhelds

MHFNBV-57 7.2V 1500mAh NiMH. C/O **$29.99**
MHFNB-12 12V 1000mAh NiMH. **$49.99**
MHFNB-17 7.2V 1000mAh NiMH. **$49.99**
MHFNB-27 12V 1000mAh NiMH. **$49.99**
MHFNB-38 9.6V 650mAh NiMH. **$59.99**
MHFNB-41 9.6V 1000mAh NiMH w/clip. **$55.99**
MHFNB-58LI 7.4V 1200mAh Li-POL. . **$59.99**
MHFNB-80LI 7.4V 1500mAh Li-ION. . **$59.99**
MHFNB-83 7.2V 2000mAh NiMH. **$59.99**

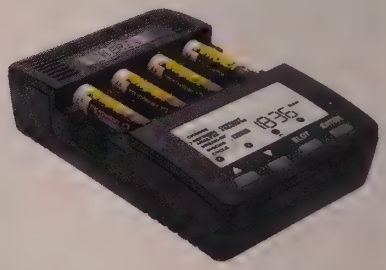
For KENWOOD Handhelds

MHPB-18 7.2V 1300mAh NiMH... C/O **$29.99**
MHPB-32 6V 1000mAh NiMH. **$39.99**
MHPB-34 9.6V 1000mAh NiMH. **$57.99**
MHPB-39 9.6V 1050mAh NiMH/clip... **$59.99**
MHPB-39H 6V 1800mAh NiMH/clip... **$59.99**
MHPB-42LI 7.4V 1800mAh Li-POLYMER. **$59.99**
MHPB-8 12V 1300mAh NiMH. ..... C/O **$29.99**

MAHA CHARGERS

MH-C801D Eight Cell One-Hour Charger

Features eight independent circuits that charge one to eight AA or AAA batteries in any combination. A large LCD screen displays the charging status of each battery (charge, done, conditioning, etc). Choose between a soft charge and fast charge mode. The soft charge delivers the highest battery life and allows 100% compatibility with older, lower capacity batteries. Fast charge allows eight batteries to be fully charged to their maximum capacity in around one hour. Conditioner will charge, deep-discharge and recharge batteries automatically. Includes a 110-240V switching power supply. **$84.99**

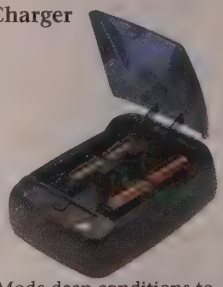


MH-C9000

WizardOne Battery Charger & Analyzer

Charges, conditions, analyzes, cycles, forms and discharges (1) to (4) AA or AAA NiMH or NiCD batteries. Digital display of capacity and voltage on LCD screen. Standard charging, conditioning and discharging, plus "Break-In" mode performs a "forming" charge designed to properly break-in new batteries. "Cycle" mode allows user to charge and discharge batteries consecutively for up to 12 cycles. Independent negative delta V, temperature and timer protection eliminates over and undercharging. Light weight and small. Worldwide 100-240V switching adapter. Also works with 12V in a vehicle when used with a cigarette lighter adapter. **$69.99**

MFJ Intelligent Charger



633 Charges (2) or (4) NiCad and NiMH AAA, AA, C, D size batteries and (1) or (2) 9V cells. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. A Discharge Mode deep conditions to correct memory, and can rescue weak or dead batteries. Process ends with a final trickle charge. Operates on120 VAC or 12 VDC.. **$29.99**

850B AC Line Voltage Monitor

Plug into a wall outlet to monitor AC line voltage. The color coded scale lets you read from 95 to 135V AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75"w x 4"h x 1.1"d.... **$24.99**

West Mountain Radio

RIGrunnner

A convenient and safe way to connect to a 12V DC source and distribute it to all your equipment, base or mobile No binding posts, frayed wire connections, black tape or short circuits. Eliminates wall warts.

- Uses **Anderson PowerPole®** crimp or solder connectors to provide a safe secure, hot connect, polarized, color keyed, genderless connector system
- 5 models, conservatively rated at up to 80 amps
- Each outlet is individually fused with an automotive ATC/ATO fuse. Open fuse LED shows status

RR/8012/C Intelligent DC Power Panel, 12 Outlets, 80 Amps maximum – Voltage monitor and alert, detachable 6 ft. 8 ga. supply cable and 12 pair of Anderson Powerpole® crimp or solder connectors. Dim: 11.8"w x 2.7"h x 1"d. **$159.99**

RR/4010S/C DC Power Panel, 10 Outlets, 40 Amps maximum – One "always on" outlet and nine automatic or manually-controlled switched outlets. An On/Off system can control your entire station with the power button on your rig. Status LED and audio alert voltage monitor. Includes 6 ft. supply cable and 12 pair of Anderson Powerpole® connectors. Dim: 11.8"w x 2.7"h x 1"d. . **$149.99**

RR/4012/C Intelligent DC Power Panel, 12 Outlets, 40 Amps maximum – LED voltage monitor indicates normal voltage; LEDs and audio alert for over/undervoltage. Includes 6 ft. power supply cable with 12-pair of Anderson Powerpole® connectors. Dim: 11.8"w x 2.7"h x 1"d. **$129.99**

RR/4008/C 8 Outlets, 40 Amps maximum – Has LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12-pair Anderson Powerpole® crimp or solder connectors. Dim: 5.75"w x 2.7"h x 1"d. **$119.99**

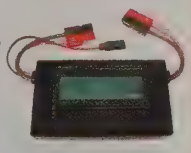
RR/4008H/C – Basic DC power panel with 8 outlets on the side for horizontal mounting. **$109.99**

RR/4005/C 5 Outlets, 40 Amps maximum – A DC power panel for small mobile installs or as expansion for existing panel. Includes 6 ft. supply cable and 6-pair of Anderson Powerpole® connectors. Dim: 5.75"w x 2.7"h x 1"d. **$84.99**

RR/4005H/C – Like the 4005/C but has the outlets on the side rather than the top. For tight installations like under seat or behind dashboard . **$84.99**

RR/4004/USBC – Four Powerpole® outlets & two USB sockets to power or charge 5-Volt devices such as cell phones, MP3 players, PDAs and digital cameras with USB type-A charging cable . **$94.99**

WHAT/MTR – Connects directly into any Powerpole® equipped circuit. LCD shows Volts, Amps, Amp/hours and Watts – simultaneously. Dim: 3.8"w x 2.1"h x 0.9"d . .**$74.99**



PG-40S Super PWRgate Backup Power System

During an AC power failure will instantly switch connected equipment to a back-up source. Can supply up to 40 Amps continuously from either a power supply or a battery, which is kept charged by the built-in charger. Optimized for use with Gelled & AGM type batteries, but will keep flooded lead acid and marine type batteries charged as well. The Super PWRgate and the power supply may also be used to charge a battery that is powering the radio. Output is via 40 Amp Anderson Powerpole® connectors (not supplied). Dim: 5.25"w x 3.9"d x 1.65"h; 0.9 lbs. ... **$139.99**

Anderson PowerPoles®

C30/PK/12 – 30A PowerPoles®.. 12 pair **$12.99**
C45/PK/12 – 45A PowerPoles®.. 12 pair **$17.99**
PWR/TOOL Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps. **$39.99**

CBA-2 Computerized Battery Analyzer

Test any type or size of battery up to 48V, 40A or 150W. Determines battery capacity and displays voltage versus Amp-hours which may be saved and printed. Plug-and-play with your PC. Includes program on CD-ROM and 6 ft. USB cable. C/O **$99.99**

CBA/TEMP Temp Probe for CBA-2. C/O **$9.99**

RT-1 RigTalk USB to serial converter with TTL output – Allows USB serial control or programming of any radio with a TTL level interface, CAT or CI-V system .. **$54.99**

CATMINI/CBL Yaesu Cable for RT-1.... $13.99
CIV/CBL ICOM/TEN-TEC Cable/RT-1..... $9.99

APO-3-PP Automatic Power Off Switch – Prevents vehicle battery discharge by switching your radio off 5, 10 or 20 minutes after the vehicle is shut off. Input: 7 to 20V DC @ 30 Amps. PowerPole® equipped ends. Dim: 3.3"h x 4.75"w x 1.35"d, 5.5 oz..... **$59.99**

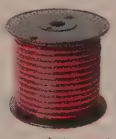
BT-JUNIOR Battery Tender Junior Jr. – A 110 VAC to 12VDC @ 0.75 Amp trickle charger that will keep your lead-acid, flooded or sealed maintenance-free batteries fully charged. Four-step charging program: Initialization, Bulk Charge, Absorption and Float modes. Reverse polarity protected, 12 ft. output cord. Dim: 3.3"w x 2.3"h x 1.8"d. **$39.99**

WATT-BLU-PP-C

"Watt's Up" Meter – Install in any PowerPole® equipped circuit and measure eight parameters: Amp/hours; Watt/hours; Voltage; Watts; Peak Current; Peak Power and Voltage Sag. PowerPoles® are installed on both ends. **$63.99**

LF-1-PP DC Noise Filter Reduces TX and RX alternator whine in mobile radios. Rated 20 Amp maximum and 16 Amp continuous. Includes 30 Amp Powerpoles®. **$39.99**

Red/Black Bonded Zip cord



Made for use in 12-volt DC power applications with extra flexible soft bare copper stranding. The automotive grade PVC insulation is oil, gas resistant and usable over a -40°F to 176°F range.

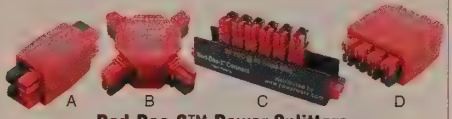
RB-14-25 25 ft. 14 gauge..... **$14.99**
RB-12-25 25 ft. 12 gauge..... **$22.99**
RB-12-50 50 ft. 12 gauge..... **$41.99**
RB-10-25 25 ft. 10 gauge..... **$34.99**
RB-08-25 25 ft. 8 gauge..... **$49.99**

DC Power Connections

HF4-PP (A) – New HF 4-pin connector (IC-7000, FT-450 & FT-950) to Powerpole® adapter. **$15.99**
HF6-PP (B) – Adapts OEM Molex type 6-pin connector to Powerpole® adapter, 5 in. long. **$15.99**
HFSOC-HF4 (C) – Adapts Molex-type 6-pin female socket to new HF 4-pin connector. **$15.99**
BY-T Splitter (D) – Tap into your factory cable and get Powerpole output. Insert a Red-Dee-2™ for easy distribution to other equipment. **$12.99**
C2O-5 Cigarette Lighter Plug (E) – 5 ft. fused (15 Amp AGC) to OEM-T Male plug..... **$14.99**
C2P-5 Cigarette Lighter Plug (F) – 5 ft. fused (15 Amp AGC) to Powerpole®..... **$14.99**
P2O-5 (G) – 5 ft. Powerpole® to OEM "T" Male connector, 15 Amps..... **$14.99**
SOC-PP (H) – 1 ft. Cigarette Lighter Socket, internal ATC 15 Amp fuse, Powerpole® end. . **$14.99**
PSC-10 (I) – 6 ft., 10 gauge Power Supply Cable with 45 Amp Powerpoles® and 1/4 inch gold plated Ring terminals. **$13.99**
RGH-10 (J) – ATC-style 10 gauge fuse holder with 45 amp Powerpoles® mounted on one end and gold-plated 1/4" ring terminals on the other. Includes (2) 40 Amp ATC fuses. **$14.99**
RGH-12 (J) – ATC-style 12 gauge fuse holder with 30 Amp Powerpoles® mounted on one end and gold-plated 1/4" ring terminals on the other. Includes (2) 15 Amp ATC fuses. **$12.99**
PPH-10 (K) – ATC-style 10 gauge fuse holder with 45 amp Powerpoles® mounted on each end. Includes (2) 40 Amp ATC fuses. **$14.99**
PPH-12 (K) – ATC-style 12 gauge fuse holder with 30 amp Powerpoles® mounted on each end. Includes (2) 15 Amp ATC fuses. **$12.99**
EX-145 (L) – 5 ft. 14 ga. extension cable with Powerpoles® on each end..... **$7.99**
110G685 Retention Clips (M) – Clip on to secure PP15/30/45 Powerpoles.. (Bag of 5) **$2.99**

PowerPole® Connectors

PP30-10 10 pair 30A Powerpoles. **$9.99**
PP30-25 25 pair 30A Powerpoles..... **$19.99**
PP45-10 10 pair 45A Powerpoles..... **$14.99**
PP45-25 25 pair 45A Powerpoles..... **$29.99**
PP75-08-2 2 pair 75A Powerpoles, 8 ga. **$7.99**



Red-Dee-2™ Power Splitters

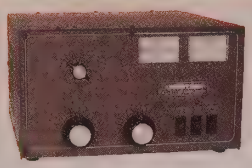
Power distribution when using PowerPole® equipped cables. Convenience, minimum power loss. All are rated at 45A @ 58 VDC. Not fused.

PS-4 (A) ..... **$17.99** **PS-6AA** (C) ... **$34.99**
PS-4 Plus (B) **$17.99** **PS-8** (D) **$27.99**

CT-2 Crimping Tool for 15, 30 & 75 Amp PowerPoles®.. **$12.99**

TRICRIMP Ratcheting PowerPole Crimp Tool Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps..... **$39.99**

AMERITRON

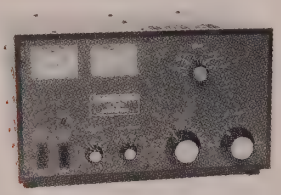


AL-811/H 811A HF Amplifiers

- Covers 160-15M, including WARC band
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input; ALC Control; Quiet Air Cooling
- 5-second Warm-up Time
- Dual Meters (Plate Voltage, Grid and Plate Current); Vernier Reduction tuning
- Dim: 15.5"d x 13.75"w 8.25"h; Weight: 32 lbs.

AL-811 – Uses (3) 811A tubes. Delivers 600W PEP out SSB/500W CW. Typical drive: 60W..... **$719.99**

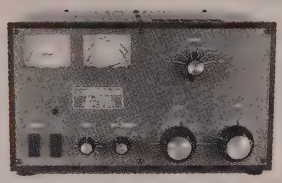
AL-811H – Uses (4) 811A tubes. Delivers 800W PEP SSB/600W CW. Typical drive: 80W.. **$869.99**



AL-80B 3-500Z HF Amplifier

- Covers 160-15M, including WARC bands
- A Full KW PEP! (70% efficiency)
- HD silicone steel core Plate Transformer (26 lbs) and Computer Grade capacitors
- Tuned Input; Adjustable ALC; Air Cooled
- Dual Cross-needle meters (SWR, PEP power, Plate voltage, Grid and Plate current)
- Operates from 90-140VAC or 205-250VAC
- Dim: 15.5"d x 14.5"w x 18.5"h; Weight: 48 lbs.

AL-80B – Uses a single 3-500Z transmitting tube. Delivers 1000W PEP output SSB/850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA..... **$1399.99**

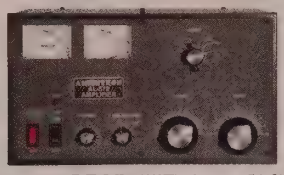


AL-800/H 3CX-800A7 HF Amplifiers

- Cover 160-15M, including WARC bands
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Dim: 8.5"h x 16.5"w x 13.75"d; Weight: 52 lbs.

AL-800 – Uses as a single 3CX-800A7 tube. Delivers 1250W PEP SSB output..... **$2399.99**

AL-800H – Uses (2) 3CX-800A7 tubes. Delivers 1500W PEP SSB output..... **$3599.99**



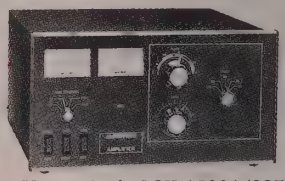
AL-572 572B HF Amplifier

- Covers 160-15M, including WARC bands
- Heavy Duty silicone steel core Plate Transformer
- Instant 3-second Warm up Time
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-needle meters show SWR, Plate voltage, Grid and Plate current
- Multi-voltage Operation
- Size: 8.5"h x 15.5"w x 14.5"d; Weight: 40 lbs

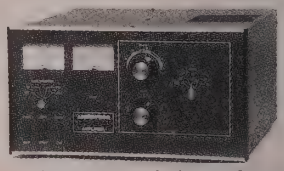
AL-572 – This *Near Legal Limit*™ amplifier uses (4) rugged 572B tubes. Delivers 1300W PEP SSB and 1000W CW continuous output for about 65% of the price a full legal limit amplifier..... **$1699.99**

Super Legal Limit HF Amplifiers

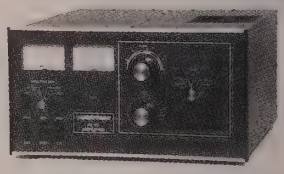
- Cover 160-15M, including WARC bands
- Strong Stainless Steel Chassis
- Highly efficient tape wound Hypersil® Plate Transformer, capable of 2500W
- Grid and Plate meters show drive, ALC, Power output and PEP Watts
- Dim: 18"h x 17"w x 10"d; Weight: 77 lbs.



AL-1500 – Uses a single 3CX-1500A/8877 ceramic tube. Only 65W of drive power delivers full legal 1500W CW output. Time-delayed start protects the tube and over-current shut-off removes the drive if amplifier is mistuned..... **$3499.99**



AL-1200 – Uses Ham radio's toughest tube, the *Eimac*® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two-tone output for 1/2 hour. 90W drive. **$3199.99**



AL-82 – Uses a pair of 3-500Z Graphite tubes. Delivers a full 1500W output which is more than other 3-500Z linears because their lighter weight power supplies can't use these tubes to their full potential. 100W drive typical, 130W max.. **$2549.99**

SOLID STATE HF AMPLIFIERS

500W Mobile Amplifier

ALS-500RC

ALS-500M – Increase your HF mobile power up to 500W PEP / 400W CW with continuous coverage 1.5-22 MHz. Uses (4) 2SC2879 solid-state devices. Instant bandswitching, no tuning, no warm-up and SWR protection. Runs nicely from 13.8 VDC mobile electrical system drawing 80 Amps peak current. Dim: 3.5"h x 9"w x 15"d; 7 lbs..... **$749.99**

ALS-500RC Remote Head – For ALS-500M amplifiers SN:13049 & up. Features: Band select, On/Off switch, current meter and TX/overload LEDs. **$49.99**

600W Base Amplifier

ALS-600 – No warm up, no tune up, just turn on, select band, and operate. Uses (4) 2SC2879 solid-state devices with 600W PEP / 400W CW output and continuous coverage 1.5-22 MHz. SWR and power protection. Includes separate AC power supply. Dim: 6"h x 9.5"w x 12"d, 30 lbs..... **$1299.99**

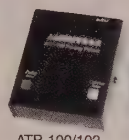
ALS-600S – Similar but with ALS-600SPS lighter weight switching power supply, 22.5 lbs. **$1399.99**

1200W Base Amplifier 220V

ALS-1300 – Continuous coverage 1.5 to 22 MHz with automatic instant bandswitching, no warm-up and no tuning. Requires 100W drive for 1200W PEP output. Operates from 50 VDC from the optional matching (or other) power supply for high efficiency and low distortion. LED illuminated Cross-Needle meters. The SWR/Wattmeter shows SWR, forward and reflected peak power simultaneously. The other shows Voltage and Amps. An SWR Protection circuit prevents possible amplifier damage if you switch to the wrong band, use the wrong antenna or have a high SWR. Over-power protection enables if output forward power or reflected power exceeds a safe level. Front panel ALC control lets you adjust output power to desired level. Variable-speed cooling. Optional ARI-500 amplifier radio interface for auto band-switching. Dim: 10"w x 6.5"h x18"d, 22 lbs. Special Order **CALL**

ALS-1300SPS Switching Power Supply – The 50 VDC @ 50 Amps power supply with pre-wired cable to plug into the ALS-1300. Dim: 10"w x 6.5"h x 9.5"d, 12 lbs ..... Speccial Order **CALL**

AMPLIFIER ACCESSORIES



ATP-100/102

ARB-704

QSK-5

ATP-100

Tuning Pulser – Pulses your transceiver to safely tune up your RF power amplifier. Prevents overheating, tube damage, power supply stress. **$69.99**

ATP-102 Deluxe Tuning Pulser – Similar but with variable pulser and delay. **$79.99**

QSK-5

Pin diode T/R Switch – Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 KW PEP/2 KW CW..... **$339.99**

QSK-5PC – PC board version of QSK-5.. **$259.99**

CF-5 Cooling Fan – for QSK-5..... **$39.99**

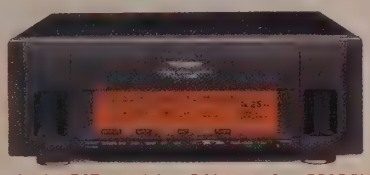
ARB-704 Interface Buffer – A must have for Icom Radios! Prevents damage to the radio's internal relay contacts resulting from keying amplifiers with too much control voltage, excessive current or voltage spikes on the relay control line. Compatible with transceivers that provide a ground on transmit. Use **ARB-704I2** for IC-706/7000 only..... ea. **$59.99**

Various "Plug & Play" Interface Cables for Ameritron Amps - See Page 3 in the Price Guide

NOTE: 10/12 meter Modification Kits for Ameritron Amps are available to licensed Hams direct from Ameritron.

HF POWER AMPLIFIERS

PW-1 HF/50 MHz Linear Amplifier – Covers 160 to 15M and 6 Meters. Power output with 100W drive is 1000W SSB/CW & RTTY when powered with 80 to 264V AC or 500W with 90-132V AC; 100% duty cycle, QSK. Features include: Automatic band change, Built-in all band automatic antenna tuner, Automatic AC voltage selector, Current, voltage, temperature, high SWR and output power protection, Wide range ALC that adjusts to almost any rig. The control head is detachable and remoteable. Built-in power supply. Two exciter input connectors and 4 output connectors. Comes with controller separation cable, ACC cables, coax jumper with PL-259s. Dim: 14"w x 10.5"h x 14.5"d; 56 lbs. . **CALL/WEB**



VL-1000/VP-1000 QUADRA SYSTEM

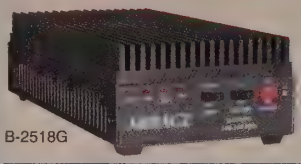
HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply

Covers 160 to 15 Meters, plus 6 Meters. Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6 meters) with 80W of drive. No tune-up automatic bandswitching with FT-1000, FT-1000MP, FT-1000MP MK-V, MK-V FIELD, FT-920, FT-2000 series and FT-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The large dot-matrix LCD provides amplifier status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks output jacks for versatile equipment and antenna configurations. Dim: (Amp) 16.25"w x 5.9"w x 17.7"d, 46.3 lbs. (PS) 16"w x 5.9"h x 15"d, 32.2 lbs.. **CALL/WEB**

52-96 SG-500 SMARTPOWER CUBE™ Microprocessor Controlled Linear Amplifier

For 500W operation on your Base station or Mobile. Designed for maximum reliability and for unattended operation where access is limited. Microprocessor control automatically selects band; adjusts amplifier input sensitivity; monitors all parameters for faults (heat, high VSWR, under voltage, etc.); automatic shutdown at fault. Front panel LED status indicators. The most advanced self-protection on the market. Covers 1.8 to 24 MHz, rated at 500W PEP SSB and 500W CW (with optional fan) with 80W drive. Less than 1 cubic foot of space. Requires 14VDC 40A average (SSB), 90A peak Dim: 6.1"h x 11.5"w x 12.25"d; 21 lbs. **$1349.99**

MIRAGE VHF & UHF POWER AMPLIFIERS



B-2518G

B-34

B-34G

B-24G

Mobile or Base Operation • Wide range of input and output levels • FM, SSB & CW modes (FM only, some models) • Built-in high-gain low-noise GaAsFET receive preamplifier on several models • Rugged construction, heavy duty heat sink • Protection for high SWR, overdrive and overheating • Remote control capability with optional remote head

Model	Frequency Range	Modes	Power Input	Maximum Output	Volts DC	DC Amps	Pre Amp	AES PRICE
6-Meters								
A-1015G	50-52	SSB/CW/FM	1-15W	150W	13.8	20	Yes	**$359.99**
2-Meters								
B-34	144-148	FM	1-8W	35W	13.8	4	No	**$99.99**
B-34G	144-148	SSB/CW/FM	1-8W	35W	13.8	4	Yes	**109.99**
B-1018G	144-148	SSB/CW/FM	0.25-15W	160W	13.8	30	Yes	**369.99**
B-2518G	144-148	SSB/CW/FM	10-30W	160W	13.8	30	Yes	**299.99**
B-2530G	144-148	SSB/CW/FM	10-35W	300W	13.8	48	Yes	**679.99**
B-5018G	144-148	SSB/CW/FM	20-60W	160W	13.8	30	Yes	**299.99**
B-5030G	144-148	SSB/CW/FM	20-60W	300W	13.8	48	Yes	**669.99**
B-310G	144-148	SSB/CW/FM	0.25-8W	100W	13.8	15	Yes	**219.99**
B-320G	144-148	SSB/CW/FM	0.25-50W	200W	13.8	25	Yes	**459.99**
222-225 MHz								
C-1022G	222-225	SSB/CW/FM	1-10W	220W	13.8	48	Yes	**$699.99**
C-2512G	222-225	SSB/CW/FM	1-40W	120W	13.8	25	Yes	**309.99**
430-450 MHz								
D-1010N	430-450	SSB/CW/FM	0.3-15W	100W	13.8	15	No	**$379.99**
D-3010N	430-450	SSB/CW/FM	5-45W	100W	13.8	20	No	**349.99**
D-1010ATVN	420-450	ATV	1-15W	52W	13.8	20	No	**399.99**
DUAL BAND (2M/440 MHz)								
BD-35	144/440	FM	0.3-7W	45/35W	13.8	7	No	**$169.99**
HT DOCKING BOOSTER								
B-24G	144-148	FM	1-5W	50W	13.8	7	Yes	**$109.99**

REPEATER AMPLIFIERS

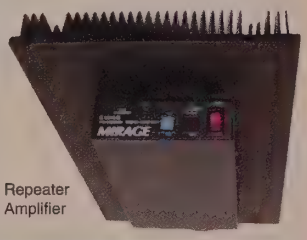
CONTINUOUS DUTY
all mode FM/SSB/CW for 6 & 2M, 220 MHz & ATV
All Models are Special Order

Model	Frequency Range	Power Input	Max Output	Volts DC	DC Amps	AES PRICE
6-Meters						
A-1015R	50-54	3-4W	110W	13.8	16-18	**$529.99**
A-1015NR	*Same as A-1015R but Type-N connector*					**549.99**
220MHz						
C-211R	223-225	0.3-0.6W	80W	13.8	15-16	**$599.99**
C-211NR	*Same as C-211R but Type-N connector*					**619.99**
C-1012R	222-235	5W	90W	13.8	16-18	**599.99**
C-1012NR	*Same as C-1012R but Type-N connector*					**619.99**
C-2512R	223-225	13-15W	90W	13.8	13-14	**569.99**
C-2512NR	*Same as C-2512R but Type-N connector*					**589.99**
440 MHz						
D-1010NR	440-450	2-4W	80W	13.8	14-15	**$629.99**
D-3010NR	440-450	10-12W	80W	13.8	11-1	**599.99**
430 MHz (AMATEUR TELEVISION)						
D-1010ATVNR	420-450	2-4W	80W	13.8	14-15	**$629.99**

REMOTE CONTROL HEADS

RC-1 – Remote control for amplifier functions: Power On/Off, Preamp On/Off, SSB or FM mode. Includes 25 ft. control cable. Dim: 1.75"h x 3.75"w x 2.5"d. **$49.99**

RC-2 – Use with model 5018G, 2518G & 1018G amplifiers. **$49.99**



Repeater Amplifier

KP-1

KP-2

LOW NOISE RECEIVE PREAMPS

High gain ultra low noise GaAsFET preamps boost weak signals on VHF and UHF for improved reception and compensation for feedline loss. Provides 15-22 dB Gain with < 0.8 dB NF. Selectable gain prevents receiver intermodulation. In-line installation, automatic T/R switching up to 160 Watts. In-shack or outside mast mount, type-N connectors. Requires 12-15V DC. Dim: 4.25"w x 2.3"h x 0.9"d

In-Shack Models	Mast Mount Models
KP-1/6M (50-54) **$139.99**	**KP-2/6M** (50-54) **$179.99**
KP-1/2M (144-148) **$139.99**	**KP-2/2M** (144-148) **$184.99**
KP-1/440 (430-450 MHz) **$139.99**	**KP-2/440** (430-450 MHz) **$184.99**

Microphones Accessories

It all Starts at the Microphone!

- Heil microphones using the **HC-5 element** will make your rig sound better by providing full articulation and more clarity than a stock microphone. It has a 350-4000 Hz response with a sharp roll-off under 300 Hz and above 3100 Hz, with a peak @ 2100 Hz.
- The **HC-4 element** produces super audio clarity with lots of PUNCH ideal for contests, DX & weak-signal VHF/UHF work. Outstanding results on pile-ups, aurora and backscatter where maximum intelligibility is needed. It features a 500-3800 MHz response with a 10dB peak @ 2000 Hz and 12 dB roll-off @ 500 Hz. The result is sharp/narrow sounding audio than does well under difficult conditions, but is not very pleasing for regular QSOs.
- The new **HC-6 element** combines the full SSB-bandwidth of the HC-5 with almost as much articulation as the HC-4, resulting in a transmission that is full of bottom end fidelity with lots of brightness on the high end.
- Heil Dynamic Elements (HC-4, HC-5, etc.) work well on Icom's IC-756, PROIII, IC-746PRO and IC-7200/7600/7700/7800. The GM-4/5, PR781, Handi-Mic 4/5, Classic 4/5, Pro Set 4/5, BM-10-4/5 and Pro Set Plus are fine and the iCM works great on these rigs, too.
- The Icom IC-706 and IC-7000 (for the IC-7000 on SSB only) perform best with the condenser elements found in the Handi-Mic iC, iCM, Pro Set iC and Pro Set Plus iC. With the IC-7000 on FM there isn't enough gain available for full deviation. It requires a condenser element, not dynamic.
- The PR-781 is outstanding on the high-end rigs; the IC-7600/7700/7800, FT-2000 and FTdx-9000. It's also a great choice for the IC-756PROIII, IC-746PRO, FT-950 and TS-2000.
- The PR-781, PR-40, etc. are not appropriate for use with the IC-7000, Yaesu FT-817ND, FT-857, etc., as the huge bass response of these microphones tends to overwhelm the mic inputs, resulting in a very bassy sound.
- The higher output iCM Desk Mic connects to the IC-7000, IC-706 and IC-703 using an HSTA-iM adapter cable. The iCM is a direct plug-and-play mate for the IC-718, IC-735, IC-745, IC-751, IC-756, IC-761, IC-765, IC-775, IC-7400 and other 8-pin Icom radios.

GM Series

Provides full-range, smooth and articulate audio for AM, FM and "Hi-fi" SSB. The wide 60–16 kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio and adds a well-balanced robust low end. There's a second switch selectable **HC-4** or **HC-5** element to provide *extra punch* when needed. A "soft touch" microswitch provides smooth, noise-free PTT operation. The die-cast body is finished in high luster black lacquer and topped with a golden grill. Requires a CC-1 adapter cord.

GM-4 GM with Full Range and HC-4 elements. **$139.99**
GM-5 GM with Full Range and HC-5 elements. **$139.99**

HM-10-DUAL

The great sounding Heil microphone that has been on the Ham bands for years. The **HM-10-Dual** has both the HC-5 "Full Range Articulation" element that makes your rig sound better and more intelligible and HC-4 "DX Dream Machine" elements, switch selectable. Requires a CC-1 adapter. **HM-10-DUAL** **$128.99**

PRE-PRO ICOM

ICM Built with a special electret condenser element that provides plenty of output, great sound and punch for the older ICOMs with low mic gain. Platinum finish, soft touch PTT switch. Includes an 8-pin ICOM mic. cable..... **$105.99**

STUDIO

PR-20 **Proline Dynamic Cardoid Microphone** – For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz–18 kHz response. 5/8" x 27 mount assembly. **$149.99**

PR-40 **Large Diameter Studio Microphone** – New element technology with a response from 28-18 kHz with a mid-range rise for nice vocal articulation.. **$319.99**

PR-781 **Proline Dynamic Microphone** – Features full-bodied tone quality, with crisp high-frequency articulation. Designed for the IC-7800 but great with the FT-1000MkV, FT-DX9000, TS-2000/870/850, and Icom PRO models. Balanced 600Ω , 3-pin XLR output. Requires CC-1 XLR cable. Black satin epoxy finish. Comes with an SM-3 mount, does not include base. **$179.99**

HANDI-MICS

There are four clean and clear sounding Handi-Mics; each for different applications, mating to different rigs and inputs. Only 4 in. tall, and the required Heil CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes a unique dash mount holder, boom clip and a windscreen.

HM-4 with HC-4 DX element and tactile PTT button..... **$85.99**
HM-5 with HC-5 Full Range element and PTT button..... **$85.99**
HM-IC with Electret element, for most ICOM rigs and PTT button.. **$85.99**
HM-PRO with wide range Broadcast element and PTT button..... **$85.99**

BASES, BOOMS & MOUNTS

CB-1-PTT **Classic Base** with soft PTT switch. **$69.99**
TM-1 **Tri-Mount** – Holds up to three microphones on 5/8" x 27 thread mounts for convenient multi-rig operation. **$14.99**
SM-1 **Shock Mount** – For GM, HM, "iCM" or other 1 in. diameter microphones. An 8-point flexible suspension supports and isolates microphones from mechanical vibrations, gives your station a "studio" look. The 3/8" x 27 threads mount to the PL-2T or other microphone stands and booms. ... **$72.99**
SM-2B **Shock Mount** – For PR-20 or other 2 in. diameter mics..... **$95.99**

PL-2T **"Topless" Pro Studio Boom** – Features a perfectly balanced arm with silent internal springs and removable tops that simplify hiding the microphone cord inside the channels. It puts the microphone right where you want it, providing a 41 in. reach. Balanced for microphones up to 2 lbs. Comes with a "C" clamp table mount. Accepts 5/8" x 27 threaded microphones – or for real class, attach a Heil SM-1 Ultimate Shock Mount System. **$109.99**
SB-2 **Small Microphone Boom** Extends from 10 to 24 in., with angle adjustments for positioning. Has a standard 5/8" x 27 thread microphone mount and secures to an edge with a "C" clamp, or into a 1-3/8" hole. **$55.99**
DT-1 **Desk top Flush Mount** – Allows Heil booms to slip into into a 1-1/2" hole drilled into your desk top. **$31.99**
FL-2 **Flange Mount** –Mounts PL-2T directly to desk top..... **$25.99**
RS-1 **Riser** – A 12 in. high flange mount that allows the PL-2T studio boom to mount elevated BEHIND the radio so the boom can be brought down into position OVER the radio. **$25.99**

ACCESSORIES

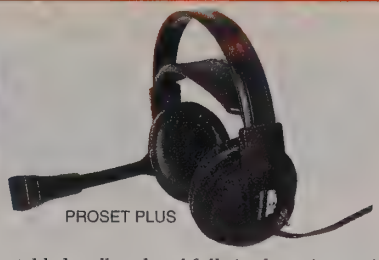
See Heil in the Price Guide for Adapter Cables and Accessories

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

HEIL SOUND

Headsets Boomsets

PRO-SET


PROSET PLUS

PROSET

Boom Microphone/Headset – *Contest and DX'ers choice!* Adjustable headband and full-sized earpieces with heavily-stuffed cushions provide ultimate operator comfort while sealing out noise. A *phase reversal* switch changes the sound from being "centered" in your head, to a wide spatial effect that can significantly improve copy. The three versions offer a choice of Heil's **HC-4** "DX Dream Machine" element, the **HC-5** full-range element, or "**iC**" condenser element for Icoms. The "iC" version comes with an Icom adapter cable, the HC-4 & 5 require an AD-1 adapter cable for Icom, Kenwood, Ten-Tec or Yaesu models (see Price Guide).

PRO-SET-4 – with **HC-4** DX element **$129.99**
PRO-SET-5 – with **HC-5** "Full Range" element. **$129.99**
PRO-SET-iC – with **'iC'** Electret element for Icom (adapter cable included). **$139.99**

PROSET PLUS

Boom Microphone/Headset – Oversized earmuff-type headsets provide superb comfort and 40dB of outside noise seal. The top has rugged but flexible internal steel bands which can be adjusted as you wish. The inner headband is self-adjusting and cushioned for a perfect fit. The microphone boom swings 180° for left or right side operation. Includes dual selectable microphone elements: the Heil HC-5 for normal operation, the HC-4 for DX. Requires AD-1 adapter for Pro-Set-Plus (see Price Guide). The **Pro Set Plus iC** includes the HC-4 and a high-performance Heil "iC" electret element for Icoms; this model includes an AD-1 "iC" for 8-pin round connectors used on rigs like the IC-7800/781/751 and the PRO series. Great sound from tailored speakers mounted in tuned cavities and wired in a stereo configuration, making them easy to integrate into an SO2R station and ideal for rigs like the FT-1000D that have a balance control for Main and Sub receiver audio. The unique *"phase reversal"* switch selects "centered" or "spatial" sound.

PRO-SET-PLUS ... **$199.99** • **PRO-SET-PLUS-iC** for **Icom** (includes adapter cord) ... **$219.99**

BOOMSETS

Boom Microphone/Headset – Lightweight and comfortable for prolonged use. Three versions: the **BM-10-4** is supplied with the HC-4 "DX Dream Machine" element. The **BM-10-5** has the HC-5 full-range element. Both require an AD-1 adapter cable (see Price Guide). The **BM-10-iC** utilizes the special Heil "iC" electret element for Icom transceivers and includes an AD-1 adapter cable. The earpiece speakers have frequency response of 60 Hz to 12 kHz and very low distortion. The entire boomset is so light that it's easy to forget that you are wearing it. The acoustic foam ear pads are replaceable.

BM-10-4 with Heil **HC-4** DX Dream Machine element. **$99.99**
BM-10-5 with Heil **HC-5** Wide Range element. **$99.99**
BM-10-iC with Heil iC electret element for Icom, includes adapter cable **$119.99**

TRAVELER

HTDS

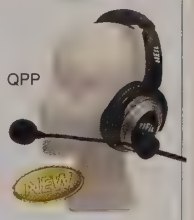
HTDS Boom Microphone/Dual-side Headset – A unique, high-performance headset that's compatible with over 100 different radios. A wide-range electret condenser element provides outstanding clarity, and extensive RFI suppression for reliable operation in many portable applications where grounding is non-existent. Oversized speakers in the earpieces provide excellent receive audio. A 3-way pendant switch in the Traveler cable provides PTT and frequency Up/Down control. A unique optional interface-cable system consists of a 3 ft. patch cable to mate with your transceiver. Interface cables are also available for interfacing to cellular telephones and personal computers (PTT and frequency control not operational). All adapter cables are sold separately, and you can use one Traveler headset on different rigs just by changing adapter cables. Padded earpieces and headband combined with lightweight allows wearing for hours in complete comfort. Weight: approximately 6.8 oz. **$89.99**

HTSS

HTSS Boom Microphone/Single-side Headset – The same performance and features of the HTDS but with a single-side earpiece design. **$69.99**

HSTAYM6 6-pin Modular Adapter – interfaces the Traveller **HTSS** and **HTDS** with Yaesu FM mobiles like FT-1900/2800/2900 & FT-7900/8800/8900 ..... **$23.99**

QUIET PHONE PRO


QPP

QPP Dual-side Quiet Phone Pro – Each headphone contains a small microphone that picks up ambient noise which is then processed in a differential amplifier along with the audio from each headphone resulting in active noise cancellation and improved clarity. Includes a volume control and operates for about 60 hours on a AAA battery. Folds for storage or travel. Includes two cords: one coiled with a right-angle 1/8 in. plug that fits airline outlets (or Ham rigs), and a 6 ft. straight cable with 1/8 in. plug (1/4 in. jack adapter included). The cord detaches for noise reduction use only (high noise areas, air travel, etc.). ..... QPP only, without optional boom **$149.99**

The Quiet Phone Pro Boom System features a brass insert and thumb-screw that accepts one of the QPP booms with elements listed below. Easily changed as desired. Requires AD-1 adapter cable (See Price Guide).

MB-1-4 QPP Boom with HC-4 Element **$79.99**
MB-1-5 QPP Boom with HC-5 Element **$79.99**
MB-1-6 QPP Boom with HC-6 Element **$79.99**
MB-1-iC QPP Boom with iC Element **$79.99**

KENWOOD

HS-6

HS-5

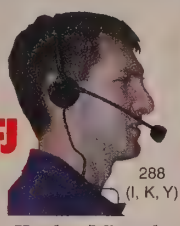
HS-5 Deluxe Headphones – Natural sound, pads eliminate pressure permitting long hours of fatigue free listening. To increase the volume level when using in a noisy room or for privacy, you can replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Response 150-4000 Hz (8Ω), wt. 13 oz. **$87.99**

HS-6 Lightweight Headphones – Response: 100-10,000 Hz (12.5Ω). Straight 6 ft. cord with 1/4 in. phone plug, wt. 4 oz. **$65.99**

YAESU

YH-77STA
Stereo Headphones
Impedance: 35Ω. Straight 4 ft. straight cord with 3.5mm plug and 1/4 in. phone plug adapter, wt 4.4 oz.. **$59.99**

MFJ


288 (I, K, Y)

292 (I, Y)

Deluxe Headset/Microphone – Lightweight, comfortable. Superb transmit audio and earphone tonal quality. A foam covered microphone. element is attached to headset with a flexible boom for proper positioning in front of mouth. PTT switch on the 6 ft. cord, hold or attach to clothing. **Order: 288I** for Icom, **288K** for Kenwood; **288Y** for older Yaesu ..... each **$24.99**

Featherweight™ Earphone/Microphone – Has an earbud earphone and a thumb-sized microphone/PTT switch that's built into the 4 ft. cord. **Order: 292I** for Icom, older Yaesu & Alinco; **292Y** for Yaesu FT-10R/40R/50R and VX-1R/5R series. ..... each **$17.99**

293 Rubber-flex Earloop Earbud/Microphone – Small and inconspicuous, secure and comfortable. Flexible rubber earloop design and 5 in. flex boom microphone that adjusts to your mouth. Thumb sized PTT switch built right into the 6 ft. cord. **Order: 293I** for Icom, **293K** for Kenwood; **293Y** for older Yaesu... each **$24.99**

392B Headphones – Perfect for both Amateur and Shortwave listening. Has superbly padded headband and ear cushions, and weighs only 8 oz. for comfort. High-performance drivers with full 20-20,000 Hz response provide enhanced sound and speech fidelity. Has individual volume controls. Includes a 9 ft. cord with gold-plated plug and 1/4 in. plug adapter. **$24.99**

KOSS HEADPHONES

RACETRACKERB Noise Canceling Sports Stereophones – Unique and rugged design specifically for racing radio scanners and metal detector users. Features 40-20,000 Hz response and a passive noise reduction system for effective noise isolation. Adjustable headband; Deep bass volume; Mono/stereo switch in the cord with 3.5mm plug; Black **$49.99**

QZ/50 Revolutionary Active Noise Reduction Reduces annoying low frequency sounds in noisy environments. Behind-the-head design provides comfort for extended wearing. Dynamic element, 30-20,000 Hz; 32Ω impedance; 98dB sensitivity; Single entry 8 ft. cord, with 3.5mm plug; Uses one AAA battery (not included); 2.5 oz. **$49.99**

QZ/99 Passive Noise Reduction stereophone with Mono/Stereo Switch – Frequency response: 40 to 20,000 Hz; Coiled, single entry, 8 ft. cord with 3.5mm and 6.4mm plugs; Sensitivity: 102dB SPL/1mW; Z: 60Ω; 15 oz. **$59.99**

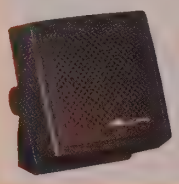
KTX/8 Portable Stereophone – Dynamic elements extend frequency response from 40 to 20,000 Hz. Foam ear cushions for comfort and hear-thru sound. Volume control on the cord. Collapsible headband for storage and portability. 4 ft. cord with 3.5 mm "L" plug..... **$14.99**

SPARKPLUG Earbuds – A dynamic element is positioned just outside the ear and connected to a tubular port structure that is inserted into the ear canal. The soft foam ear cushion expands for a custom fit to improve isolation and enhance deep bass and treble clarity. Has a white cord to compliment many MP-3 players. Impedance: 16Ω; Frequency response: 10Hz to 20,000Hz; Sensitivity: 112dB SPL/1mW. Straight, dual entry, 4 ft. white cord. **$14.99**

SPEAKERS & DSP

KENWOOD

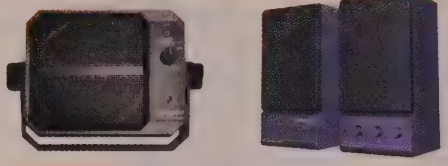
SP-50B Communications Speaker – Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated for 1.5W with a 300 to 4000Hz frequency response. Dim: 4.8"w x 3.2"h x 1.4"d; 10 oz. **$59.99**



MIDLAND

21-406 High Performance Mobile speaker – Clear, crisp sound. Z: 4Ω, 15W capacity. Dim: 5.5"w x 5.5"h. Swivel base, audio cord with 3.5mm straight plug. **$22.99**

West Mountain Radio

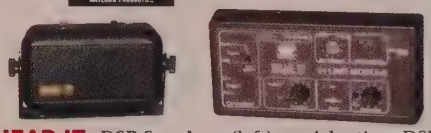


CLR/SPKR ClearSpeech® DSP Noise Reduction Speaker (left) – A 4 in. speaker with an Adaptive DSP Noise Reduction circuit and 2W audio amplifier. The DSP passes Voice and CW while hum, hiss, ignition and power line noise, static crashes and heterodynes are removed or greatly attenuated. Selectable 3-level noise reduction. Includes tilt mounting bracket, 6 ft. 12V DC power cable with Powerpole® connectors and 6-ft. audio cable with 1/8-in. plug. Rear jack for an external speaker connection; On-Off switch; LED power and input level indicators. Dim: 4.25"h x 5.25"w x 2.5"d. **$219.99**

CLR/DSP ClearSpeech® DSP Noise Reduction Without speaker; 4 watt output. **$219.99**

CS-1 Computer Speaker System (right) – An RF Proof amplified stereo speaker system for your hamshack computer. Interference-free operation in close range of 1-1000MHz transmitters. Stereo, high-fidelity response for voice or music. Solid, resonance free, wooden cabinet. Complete with audio cables and wall power supply. Input: stereo line level 1/8" mini-jack; Output: nominal 3 Watts per channel. Dim: 8.375"h x 4.125"w x 5.25"d (each speaker), 72 oz. (complete). **$39.99**

GAP ANTENNA PRODUCTS *Adaptive DSP Technology*



HEAR IT DSP Speaker (left) – Adaptive DSP Technology adapts to changes in background or man-made noise levels and attenuates it up to –20dB, resulting in cleaner audio. If your radio already has DSP, it will provide additional improvement in readability. If it doesn't have DSP, there will be a huge improvement. Eight user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plug headphones or another speaker into the audio bypass jack and retain the DSP noise reduction feature. A built-in amplifier provides 2.5W of audio power. Requires 12–28VDC @ 500mA. Includes a 6.5 ft. lead with 3.5mm mono plugs. Dim: 4.5"w x 2.75"h x 2.25"d. **$169.99**

IN LINE MODULE DSP Module (right) – Provides the same DSP features as the *'Hear it'* speaker above, but without the speaker unit. Includes a built-in 5W audio amplifier for your station speaker. Has 3.5mm mono and RCA phono audio input and output jacks and headphone jack. Requires 12-24VDC @ 500mA. Includes a 3.5mm audio cable and fused power leads. Dim: 6.75"w x 3.35"h x 1.4"d; 1 lb. **$219.99**

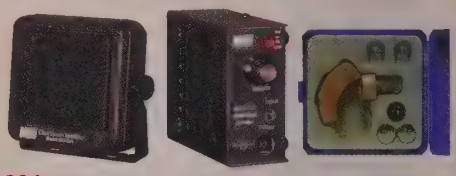
SGC *ADSP2 Speaker*

70-14 – Delivers Adaptive DSP Noise Reduction for ANY transceiver. There are two pushbutton switches that toggle between 0, 13dB or 26dB of noise cancellation and 1 of 3 bandpass filters (100, 500 & 1500 Hz). It provides -45dB out of band reduction with one-click operation. Headphone jack for private listening. Black metal enclosure with adjustable stand and audio cable Requires 12 VDC @ 110-500mA.
Dim: 3"h x 5"w x 2.5"d; 11 oz. **$159.99**

MFJ Miscellaneous DSP & AUDIO

784B Tunable DSP Audio Filter – Improves reception by simultaneously eliminating heterodynes and reducing noise and interference. Has 5 tunable DSP filters, plus 10 programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction automatically handles varying noise levels. Highpass, lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Requires 12 VDC or 110V with the MFJ-1312D.
Dim: 9.5"w x 2.5"h x 6"d. **$259.99**

616 Speech Intelligibility Enhancer™ – Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand QSOs by adjusting response levels to match your own hearing response. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable inputs; bypass switch. Dim: 10"w x 2.5"h x 6"d; requires 12 VDC. **$179.99**



281 Communications Speaker (left) – A rugged 3 inch mylar cone speaker mounted in an effective baffle. Improves speech intelligibility in the 600 to 4000 Hz range while reducing undesirable noise, static and hum. Includes adjustable mounting bracket. Dim: 3.75"h x 3"w x 2.25"d. **$12.99**

382 Deluxe Amplified Speaker (center) – Excellent for QRP'ers, base station HTs or rigs that can benefit rom a higher volume level. A quality 3 inch speaker is housed in an all metal cabinet with rubber feet and vinyl clad cover. Uses a 9V battery or 110V AC with optional MFJ-1312D. Audio cable included. Dim: 3.5"h x 1.75"w x 4.5"d. **$39.99**

388 CyberEar™ 12dB Amplifier (right) – Tiny and powerful. Plugs in and loops over right or left ear. Captures and amplifies sounds by 12dB to extend your hearing range. Flesh color makes it hardly noticeable. Volume control, on/off switch. Three interchangeable ear plugs. Lightweight, only .35 oz. Includes batteries. Not a hearing aid. **$29.99**

1263 Microphone Control Center – Eliminates swapping mic connectors. Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Great for inputting sound card, SSTV, AFSK, TNC and other audio sources. Includes two 8-pin round radio cables. Dim: 6"w x 1.5"h x 5"d. **$109.99**

TIMEWAVE TECHNOLOGY INC.

DSP NOISE REDUCTION

DSP-599ZX DSP Noise Filter – Digital Signal Processing provides superior reduction of QRM and QRN. Analyzes signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in to fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10 Hz-600 Hz; Center frequencies 200-2150 Hz, wider filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER. Test instrument mode provides an audio sine wave generator, audio millivoltmeter and two-tone audio generator. **$399.99**

ANC-4 Antenna Noise Canceller and Diversity Combiner – Effective with any transceiver (up to 250W) or receiver from 500 kHz– 80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver AGC. Connects between your antenna and radio with a second antenna acting as a noise pickup. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. It also can operate as an active antenna using a the noise antenna and noise gain control. And, it can be used as a diversity combiner enhance weak signals or null interfering signals. 11–16V DC @ 300 ma. Dim: 1.7"h x 6"w x 4.3"d; 2 lbs. **$199.99**

NORCOMM™ TONE SIGNALLING PRODUCTS

TONE SIGNALLING

NC-101

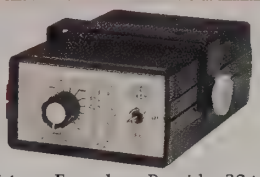
NC-101 CTCSS Encoder – Field tunable to any CTCSS tone frequency between 67 Hz and 254 Hz. 5 to 15VDC. Dim: 0.6"w x 0.8"l x 0.15"h.. **$21.99**

NC-106 CTCSS Encoder/Decoder.. C/O **$67.99**

NC-401 Touch-Tone Decoder – Two addressable decoders control remote or local applications. Decodes 16 DTMF characters with an address length of 1-14 characters and features E²PROM memory for storage of primary and secondary codes, input/output functions, deadbeat disable and user outputs. 6-24VDC. Dim: 0.80" x 1.38" x 0.23". **$76.99**

CSI COMMUNICATIONS SPECIALISTS, INC.

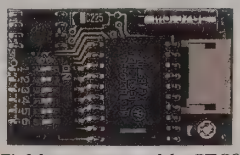
TONE ENCODERS & DECODERS



Actual Size

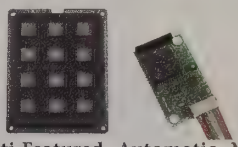
SS-64 Programmable CTCSS Encoder – Super small for easy installation in most handhelds. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 1.08" x 0.66" x 0.21"; 6–28 VDC.... **$28.99**

Smaller than Actual Size



TS-64DS Field programmable CTCSS Encoder /Decoder – DIP switches select 64 tones 33 - 254.1 Hz. Dim: 2" x 1.25" x 0.3"; 6–28 VDC..... **$57.99**

TE-32 Multi-tone Encoder – Provides 32 tones via direct access from the dial rotary switch to all EIA CTCSS tones from 67 to 203.5 Hz, allowing access to multiple repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7"; 6-30 VDC... **$59.99**



ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20VDC. Dim: 1.85" x 1.12" x 0.35". **$69.99**

ICOM D-STAR REPEATERS & CONTROLLER

D-STAR is a new ham radio system which offers digital voice and data communication. It connects repeater sites over microwave links and the Internet and forms a wide area ham radio network. Provides a new capability and functionality to ham radio and emergency communications systems.

ID-RP2C - Repeater Controller (control up to 4 modules)..... **CALL/WEB**

ID-RP2000V - 2M Voice Module; RX & TX 144-148 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps)..... **CALL/WEB**

ID-RP4000V - 440 MHz Voice Module; 440-450 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps)..... **CALL/WEB**

Special Order Units:

ID-RP2D - 1.2 GHz Data module; RX & TX 1240-1300 MHZ; Output 9-12W (high)/0.5-1.2W (low); Communication speed: 128 kbps.... **CALL/WEB**

ID-RP2V - 1.2 GHz Voice Module; RX & TX 1240-1300 MHZ; Output 6-12W (high)/0.5-1.2W (low); Communication speed: 4.8 kbps. **CALL/WEB**

ID-RP2L06 - 10 GHz Backbone Module; Microwave link one repeater site to another site. In order to create a link you must have one ID-RP2L06 at site "A" and one ID-RP2L07 at site "B". RX & TX 10-10.175GHz; 2W out ... **CALL/WEB**

ID-RP2L07 Site "B" Link. ..... **CALL/WEB**

YAESU

2M FM REPEATER

VXR-7000VA 50W 2M FM Desktop Repeater 136-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display*; CW transmitter I.D.*; Time-out, hang and guard* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, auto. DC back-up. Dim: 4.5"h x 12.8"w x 15.4"d; 22 lbs. **$1299.99**

** Dealer programmed feature*

WIRES™ INTERNET LINKING

WIRES™ (Wide-Coverage Internet Repeater Enhancement System) is an easy-to-use system for linking repeaters and/or home stations together, using Internet voice technology. You can talk world-wide using your HT or mobile radio via a WIRES-equipped node.

HRI-100 Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD, manual, power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card cables and WIRES™II user/server agreement. **$149.99**

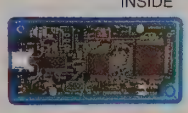
Take D-Star for a test drive at: AES Milwaukee, AES Orlando & AES Las Vegas

Experience the future of VHF & UHF communications today!

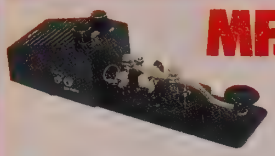
For more information see page 134

DV Dongle - D-Star on your PC!

INSIDE

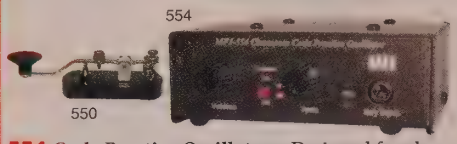


Connects via USB port to a PC or Mac. Using *DVTool* software, a Ham operator can connect to the D-Star Gateway Network and receive and transmit just like operating a D-Star radio. It provides encoding and decoding of compressed audio using the DVSI AMBE2000 full duplex vocoder DSP chip, as used in all D-Star radios. The constantly updated *DVTool* software which may be downloaded (http://www.dvdongle.com), runs on Microsoft Windows XP/Vista, Mac OS X Leopard (10.5+) and many versions of Linux. Includes USB A to mini-B cable and getting started information. System requirements: 2+ GHz CPU, 512MB RAM, USB 2.0 port, microphone, speaker (or headset) and high speed internet. Dim: 3.125"w x 1.625"h x 0.5"d..... **INT DVDONGLE $199.99**



MFJ CODE PRACTICE READERS KEYERS

557 Code Oscillator with Key – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110VAC with MFJ-1312D ($15.99). Dim: 8.5"d x 2.25"h x 3.75"w. ... **$39.99**



554 Code Practice Oscillator – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Metal enclosure. Dim: 4.25" x 1.5"h x 5"d. **$89.99**

550 Hand Key..... **$14.99**

414 Professional Classroom Tutor – Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory Keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and patch cable. Uses 12 VDC or 110 VAC with MFJ-1312D ($15.99). Dim: 8.5"w x 2.25"h x 6"d. **$199.99**

452 Super CW Keyboard – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5–100WPM; Weight: 5–95%; Sidetone: 300–3000 Hz sidetone; Serial Numbers (0–9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC. **$149.99**

452X – Same as 452 without keyboard. **$119.99**

462B MultiReader™ – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. An 8K memory for storage and convenient printer port. Requires 12VDC. Dim: 6.25"w x 2.5"h x 6.25"d. **$189.99**

5162 Receiver Cable – Connects the 461 or the 462B to a radio's external 3.5mm jack. **$7.99**

418 Pocket-Size Morse Code Tutor w/LCD Display – Learn Morse Code anywhere! A large LCD display reads out letters, numbers and punctuation in plain English. See code as it is being sent. MFJ's proven Beginners Course takes you from zero code speed to solid copy fast! Realistic plain English QSO practice helps you pass your FCC Code exam. High-Speed practice takes you to Extra Class and beyond. Practice copying entire words - not individual characters. Easy to use just choose from menus on the LCD - no manual needed. Uses 9V battery (not included).
Dim: 2.25"h x 3.75"w x 1"d, 5.5 oz. **$89.99**

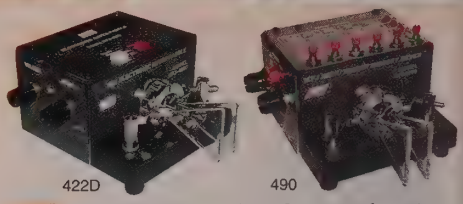
461 Pocket-Size Morse Code Reader – Looks like the 418 but turns Morse Code signals into text on the LCD screen. Full description on page 118. .. **$89.99**

464 CW Reader With Built-In Keyer – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; two-line LCD shows "send and receive" text; Front panel speed and volume controls; four message memories; 190 character type-ahead and read-again buffers; Adjustable weight (25% to 75%) and sidetone; Built-in speaker; Dim: 6.25"w x 2.5"h x 6.25"d. **$189.99**

407D Deluxe Electronic Keyer – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. uses 9V battery. Dim: 7"w x 2"h x 6"d.... **$79.99**

401D Econo Keyer – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4"w x 1.75"h x 3.75"d. .. **$69.99**

434B Contest Voice Keyer™ – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like *"CQ Contest this is K9KHW"..."You're 59"..."Grid is EN63"* and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3–500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu, Alinco rigs, using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head ($34.99) allows out of the way operation. Use 9 Volt battery, 9-15 VDC or 110 VAC with MFJ-1312D, ($15.99). Dim: 6.5"w x 2.5"h x 6.5"d..... **$189.99**

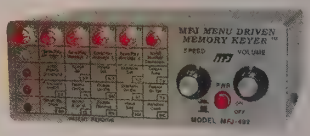


422D Keyer-Paddle Combo – Consists of a unique MFJ/Curtis Keyer™ in a compact package installed on a Bencher iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memories, speaker, sidetone and semi-auto/tune modes. Keys grid block, cathode or solid state. Uses 9 volt battery or 110 VAC with MFJ-1312D ($15.99).
Dim: 4"w x 2.25"h x 4.25"d. **$179.99**

422DX Keyer Only – Install on your Bencher or MFJ 564 Iambic paddle. **$89.99**

490 Menu Driven Memory Keyer and Bencher Paddle Combo – A compact feature-rich Keyer mounted on a Bencher iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic, semi-automatic or bug or handkey modes. Select iambic A/B, Morse trainer, contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99).
Dim: 5"w x 3"h x 5.5"d. **$199.99**

490X Menu/Memory Keyer Only – Same as MFJ-490 but without Bencher paddle..... **$119.99**



492 Menu Driven Memory Keyer – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99). Dim: 6.5" x 2.5" x 6.25". .. **$109.99**

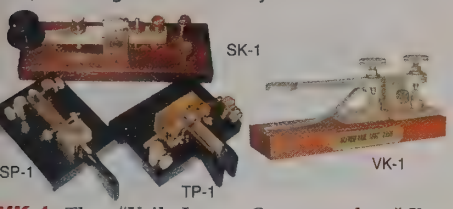
495 Millennium CW Keyer – A powerful Keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; Iambic Keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99).
Dim: 6.25"w x 2.5"l x 6.25"d..... **$169.99**

447 SlimLine Deluxe Keyer – Front panel speed, weight, tone, volume controls and message, semi-auto, tune, power buttons. Jack for speaker or headphones. Dim: 6.25"w x 1.75"h x 5"d..... **$89.99**

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

KENT Keys

Produced by R.A. Kent Engineers for OUTbacker. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.



VK-1 The "Vail Lever Correspondent" Key A faithful reproduction, accurate to the type of hardware used during the mid-1800s, of the first full mechanism telegraph hand key made for Samuel F.B. Morse by Alfred Vail in 1844. Hand crafted and serialized – a collectable! C/O **$149.99**
SK-1 – Straight Morse Key. **$129.99**
SP-1 – Single Paddle Morse Key..... **$139.99**
TP-1 – Dual Paddle Iambic Key. **$149.99**

UM Unified Microsystems

XT-4 CW Memory Keyer – Designed for QRP, field day, mobile or any portable operation. Great in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode engages after 30 min. of inactivity. Uses 9V battery..... **$69.99**
KC-4 – CW Cable set for XT-4 & VK-64. **$9.99**
VK-64 Combination CW/Voice Keyer – Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses a 12V wall power supply..... **$219.99**
VKC-8 Shielded Audio Cable – A semi-kit wired and tested except for microphone and transmitter connectors (8-pin)..... **$24.99**

The Better RF Company

I-MATE Accessory for ICOM PRO Series Provides external selection of pre-recorded voice and keyed messages for the 756PROII & III and keyed CW messages for the 746PRO. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Alternate audio input for second microphone. Plugs into transceiver microphone jack and powers from the available voltage..... **$74.99**

AMECO

Code practice oscillator and Morse code monitor

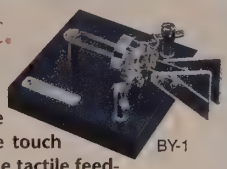
Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.
OCM-2W Wired **$29.99** • **OCM-2K** Kit **$19.99**

Morse Code Keys

K-1 Low-cost General Purpose Key – Phenolic base, adjustable tension, contact spacing. **$10.95**
K-4R Deluxe High Quality Key – Polished brass plated zinc base, shorting bar. **$19.95**

BENCHER, INC.

IAMBIC & SINGLE LEVER PADDLES



Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contract points and heavy non-skid base.

IAMBIC
BY-1 – Black base/Chrome components. **$119.99**
BY-2 – Chrome base/components. **$149.99**
BY-4 – Black base/Gold components.. **$179.99**
SINGLE LEVER
ST-1 – Black base/Chrome components. **$119.99**
ST-2 – Chrome base & components.. **$144.99**

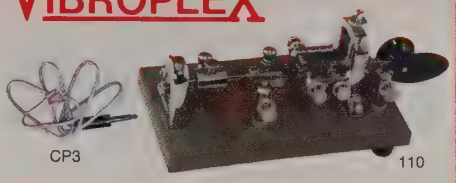
RJ SERIES KEYS

Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.
RJ-1 – Black base/Chrome components.. **$119.99**
RJ-2 – Chrome Base & components.. **$149.99**

IDIOM Press
LOGIKEY

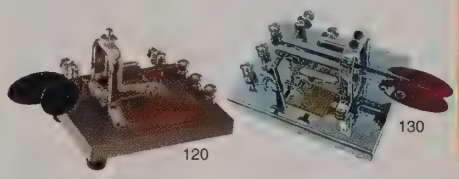
K-5 Fully Iambic Keyer – An improvement on the world-famous LOGIKEY K-3. More user friendly and an unmatched feature list, with the best operator interface available. New features include greater protection against voltage spikes, lightning, etc. All stainless hardware, internal volume control, updated enclosure design. Three AAA cells run the K5 for months, or it also accepts 9 to 12V DC. Works perfectly with single-lever, non-iambic paddles. Dim: 4.25"w x 2.25"h x 4.75"d. The K5 otherwise has too many features to list, but you'll find full details at http://www.idiompress.com..... **$149.99**
HK-3 Hook-up kit for the K3 – Includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V..... **$10.99**

VIBROPLEX®

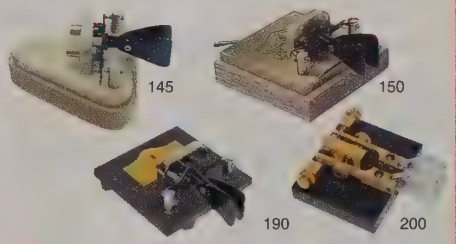


CP3 1/4" Stereo Plug/Cord for CW Keyers. . $9.99

The Original Bug from 1904 for 20-50+ WPM.
110 Standard – Painted base/chrome top. **$179.99**
195 Blue Racer 2000 Standard – Blue base with chrome top and red finger pieces..... **$199.99**
105 Deluxe – Polished chrome base and top parts with fine jewel movements..... **$209.99**
100 Presentation – Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements. **$269.99**



Vibrokeyer (left) – Single lever paddle initiates automatic dots and dashes of an electronic keyer.
120 Standard – Black base, chrome parts. **$159.99**
115 Deluxe – Chrome base and top parts with jeweled movements..... **$189.99**
113 Gold – 24K gold-plated base and chrome top parts with jeweled movements. Closeout **$249.99**
Iambic (right) – Allows automatic dot/dash insertion.
135 Standard **$159.99**
130 Deluxe..... **$199.99**
125 Presentation – 24K gold-plated top plate, chrome base with jeweled movements..... **$269.99**
123 Gold..... Closeout **$249.99**



145 Triangle Brass Racer Iambic – Solid brass paddle & polished hardwood base..... **$149.99**
150 Square Brass Racer – Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs. **$149.99**
190 Square Racer Standard – Black base with chrome top parts, cord included..... **$129.99**
200 Code Warrior Jr – Magnetic Paddle. . **$99.99**

Straight Keys (left) – Unique mechanical action, unlike any straight key ever manufactured.
155 Standard **$159.99**
160 Deluxe..... **$189.99**
Deluxe Double Keys (right) – Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.
165 DLX straight key/Iambic..... **$349.99**

West Mountain Radio

RIGblaster

The easiest way to connect a radio to a PC to operate old or new analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of a old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, come with an up to date CD collection of ham radio operating software, all the cables and power supply you need to get on the air. Five models to choose from for your operating needs. Use with any USB or RS-232 computer and over 2000 different radios.

RB/PR/CUSB RIGblaster Pro USB – The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with a computer and a radio. For 8-pin and RJ-45 radios as supplied. ... **$299.99**

RB/PL/CUSB RIGblaster Plus USB – Run all sound card modes with fully automatic operation with your mic. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. 8-pin and RJ-45 radios as supplied... **$159.99**

RB/NO/CUSB RIGblaster Nomic USB – Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your microphone whenever you wish to use sound card software. For 8-pin and RJ-45 radios as supplied..... **$59.99**

RB/PP RIGblaster Plug & Play – Compatible with over 25 modes and all ham radio sound card programs. Connects through radio's DATA jack and computer's USB port and sound input. A built-in USB to serial converter provides T/R switching, CW keying and CAT/CI-V rig control. Complete with USB cable, computer audio cable & a CD ROM. The plug & play has fully isolated audio and keying, runs from USB power. A special feature for Echolink provides carrier detect on CTS, DSR and DCD. Some radios will require an additional Data Jack Adapter cable; does not work with FT-847 or FT-1000D. **$119.99**

CIV/CBL Rig Control Cable for CI-V Radios. **$9.99**

CATMINI/CBL Rig Ctrl Cable for CAT Radios. **$13.99**

Auxiliary Jack Adapters:

RPA/I13D 13-pin DIN, for Icom..... **$9.99**

RPA/I8D 8-pin DIN, for Icom. **$9.99**

RPA/K13D 13-pin DIN, for Kenwood..... **$9.99**

For Rig Compatibility information see the chart at:
www.aesham.com/rig.shtml

RIGblaster duo

RB/DU/CUSB Station Integration Console
Now make your station neater, better and more efficient. The duo has the same capabilities as other RIGblasters, but additionally, you can operate two radios using one microphone, one set of headphones, one pair of speakers and just one soundcard interface in your USB equipped PC with an available USB socket. The duo's built-in dual USB to serial converter allows you to use two ham radio software applications at the same time. It can be used with almost any microphone and works with a single pair of amplified or unamplified speakers. You can monitor any combination of radio (A, B) and computer on headphones and/or speakers. Each radio can be internally configured for your choice of stereo dual receive, dual mono or left or right. Dual isolated CW keying and dual FSK outputs key both radio via computer software that can operate with either virtual COM port. Dual CI-V or single TTL level CAT control to control radios via either virtual COM port. Comes with two 8-pin round mic. cables, one RJ-45 mic. cable, DC cord, jumper pack, USB cable, four mini-audio cables and adapters. Requires 13.8 VDC @ 1.8 amps.. **$349.99**

www.westmountainradio.com

Note: The RIGtalk, Rigblaster Plug & Play and Rigblaster duo are now Microsoft WHQL certified for Vista 32 and 64 bit. Drivers are available for download at www.westmountainradio.com/support.htm

MFJ Computer SOUND CARD to RIG Interfaces

Connect the Sound Card in your Computer to your Rig and operate the Digital Modes: CW, RTTY, SSTV, PSK-31, packet, APRS, AMTOR, High Speed Meteor Scatter and more!

MFJ-1279 (front & back)

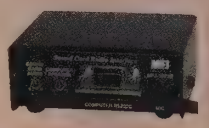
Sound Card Interface – Connect between a transceiver and computer to operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Internal jumpers set up for any radio. Includes AC power supply, all cables and a collection of popular Digital mode software on CD.

1275 Accepts 8-pin round microphone plug..... **$99.99**

1275M Accepts 8-pin modular plug (RJ-45). **$99.99**

Super Sound Card Interface – Has all of the features of the **MFJ-1275** above, plus: an Auxiliary input jack to switch the sound card to some other device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Plug and play, includes CD with a selection of Digital mode software, RS-232 and audio cables, and AC power supply.

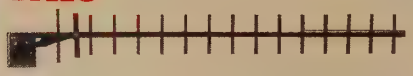
1279 For 8-pin round mic. plug.... **$129.99** • **1279M** For 8-pin modular (RJ-45) mic plug.... **$129.99**



Basic Sound Card Interface – A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or mic switch). Includes RS-232, audio and mic cables and Digital mode software CD. No external power needed.

1273B For 8-pin mic plug... **$59.99** • **1273BM** For 8-pin modular... **$59.99**

MFJ 16-Element Wi-Fi Yagi



1800 – Covers 2.4 GHz with 15dBi gain which greatly extends the range of 802.11b/g Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes interfering signals. Works with any 802.11b/g or 2.4 GHz device. Unique mount has a built-in standard N-type female connector and can mount on a photographic tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mount. Orientates for either horizontal or vertical polarization. Precision punched aluminum construction. Boom length: 18 in. weight 2 .9 oz. **$29.99**

5606SR – 6 ft. cable with N type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g device with a reverse SMA connector. **$24.99**

AOR Digital Voice Interfaces

ARD-9000 MK 2

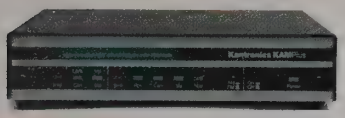
ARD-9800

ARD-9000 MK 2 Digital SSB Interface
Like the previous ARD-9800, it works with any existing SSB transceiver without modifications to operate digitally where background noise and static are virtually non-existent and SSB audio is near FM quality. It's Digital Voice only and does not include Data and Images like the ARD-9800. The ARD-9000 MK 2 and ARD-9800 are compatible with each other and both automatically detect digital signals and decode them while allowing analog signals to pass through. Easily shifts between digital and analog operation. Comes with a speaker-microphone, DC power cable, magnetic mount base and 8-pin microphone plug. It's ready to make the simple connection to your transceiver's mic input and speaker output. Dim: 2.8"w x 1.3"h x 3.9"d..... **$359.99**

ARD-9800 Digital Voice and Image Interface
Use your SSB transceiver for Digital Voice, Data (3600 bps) and Images while maintaining analog capabilities. Easy install! Includes PTT hand mic, cables & manual. Requires 10-16VDC.
Dim: 3.94"w x 1.26"h x 6.14"d **Closeout** **$349.99**

MULTI-MODE DATA CONTROLLERS

Kantronics



KPC-3 Plus/128 – 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM. **$229.99**

9612 Plus/128 – 1200 bps port and second port of 4800 – 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCSAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability. **$399.99**

KAM XL Multi-Mode DSP Controller - Third generation multimode TNC, state-of-the-art for operations on HF/VHF/UHF, while supporting DSP modems and popular new modes: Packet (300, 1200, 9600 bps); G-TOR; PACTOR I; AMTOR (ARQ, FEC, SELFEC, CCIR 476 and 625); PSK31; RTTY; NAVTEX/AMTEX; ASCII; WEFAX; EMWIN; Dual-port Mailbox; CW; GPS NMEA-0183 compatible; Telemetry; Remote Control: Remote SYSOP Access; Kantronics Host Mode and KISS. Features include: **Location Tracking/Announcement** with a GPS connected you can automatically annouce your position to others via HF, VHF or UHF; **HF and/or VHF/UHF Operations** with dual radio ports a local packet can be received on VHF or UHF, then transmitted over HF; **Large Capacity Internal Mailbox** with 480K storage standard **$446.99**

12VDCADAPTOR 120VAC Adapter – Supplies 12VDC @ 300 mA for Kantronics units. **$19.99**

TIMEWAVE TECHNOLOGY INC.

PK-232/PSK Multimode Data Controller – The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters, 100 Hz CW filter and adaptive PACTOR filters. Weak signals pop through noise and interference bounces off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timewave's on-line and telephone support. Requires 11-16V DC @ 800 ma. Dim: 8.25"d x 2.5"h; 3 lbs. **$499.99**

PK-232/USB – Same as above except the RS-232 port is replaced by a USB port..... **$529.99**

PACKET TNC

PK-96/100K 9600/1200 packet TNC – 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; 128K RAM. Requires 12V DC. Dim: 6.25"w x 7.5"d x 1.375"h; 1.25 lbs.. **$219.99**

AC-1 120VAC Adapter – Supplies 12VDC @ 700 mA for PK-232/PSK/USB & PK-96/100K..... **$15.99**

AC-5 120V Desktop Power Supply – Supplies 13.8VDC @ 1.5 Amps for the DSP-599ZX, PK-232/PSK/USB & PK-96/100K..... **$22.99**

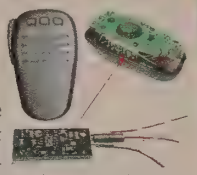
W4RT Electronics — YAESU ACCESSORIES

One-Plug Filters

Direct plug-in W4RT-built Collins mechanical filters for the Yaesu FT-817(ND), 857(D) and 897(D) radios. The CW filters also work in the FT-2000(D). Improve your CW/PSK experience with a 300 Hz (8-pole) or 500 Hz (7-pole) filter which are essentially identical to the Yaesu YF-122C and YF-122CN. The 300-Hz is often preferred by CW & PSK contesters. The 2.3 kHz SSB filter contains a 10-pole Collins Mechanical Filter identical to the Yaesu YF-122S. "Hearing" is improved and tests have demonstrated that a 2dB improvement in talk power can be realized by using this filter rather than the stock MuRata ceramic filter. All filters are properly terminated and easy to install. Just remove the cover, plug-in, and set the radio's menu as explained in the respective manuals.

OPF-YCW300 300 Hz CW filter..... **$119.99**
OPF-CW 500 Hz CW filter. **$114.99**
OPF-SSB 2.3 kHz SSB filter..... **$134.99**

Speech Compressor
OBP-STD
One BIG Punch



Installs inside the MH-31 microphone used with the Yaesu FT-817, 847, 857 & 897 series transceivers. An AF-based compressor configured to provide a 5dB increase in talk power with good audio quality. Requires no additional power, and turns On/Off with the MH-31's Tone switch..... **$49.99**

OBP-UNIV – The **One BIG Punch** for microphones having 7-12V DC available, like the Yaesu MH-36 used with the FT-100/D or the Icom HM-103 with the IC-706 radios..... **$49.99**

MFJ DX BEACON MONITOR

890 – Checks worldwide band conditions in just three minutes. It's a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the worldwide DX beacon activation sequence. LED indicators positioned across a world map show which of the 18 world beacons is active at any given time. Storing the beacon frequencies (14.100, 18.110, 21.150, 24.930 and 28.200 MHz) in your receiver memory allows quick band switching as one listens for beacon transmissions. When a beacon is heard (on your station receiver) on any of the beacon frequencies, that band is open to the location as indicated by the corresponding LED. No receiver connection required. 12VDC or 110VAC with the MFJ-1312D. Dim: 6.7"w x 5.2"h x 3"d..... **$109.99**

PHONE PATCH

624E Deluxe Hybrid Phone Patch – Use with any rig with 8-pin or modular mic connector. Operate VOX or PTT. Built-in VU meter monitors phone line levels. Null depth control adjusts for maximum receiver and transmitter isolation. Separate TX and RX gain controls. RJ-11 jacks for speaker, audio in and audio out. Use 12 VDC, 9V battery or 110 VAC with MFJ-1312D. Dim: 8"w x 2"h x 6"d.. **$149.99**

Offering Navigation, plus APRS Ready for these KENWOOD *Transceivers*

AvMap GPS Navigator

G5 – The ultra bright non-glare 5 inch LCD TOUCHSCREEN is easy to view in any lighting condition. Comes preloaded with highly detailed Tele Atlas street maps of North America on a 2 GB SD memory card and gives you color 2D and 3D views with turn by turn voice prompts in 14 different languages. Includes a Kenwood-ready cable and exclusive APRS interface built right into the G5. This bi-directional RS-232 APRS interface is balanced for ALL current APRS ready Kenwood Radios. Other features include: detachable 12v power cable, bi-directional NMEA 183 serial port, external antenna port, NTSC/PAL video and audio input, PC connection for software updates via USB port, off road, fastest route, and least turns calculations with turn details. Routing instructions include current road name and house number with road name and the next turn command. "Drive Me Home" rapid command. Intuitive touch screen address lookup with millions of points-of-interest. Includes all-in-one navigation and mobile navigation software, built-in speaker, lithium-ion rechargeable battery and car charger, SD memory card, and cables. Dim: 5.5"w x 3.9"h x 1.4"d, 0.86 lb..... **$599.99** • *See the full G5 brochure at: www.avmap.us*

LIDO LM-25 Bean Bag Dash Mount – Works great with the AvMap G5 where windshield suction cup mounts are prohibited. For picture and more information see Page 47. ..... **$19.99**

Creative Services Software

Take Control with State-of-the-Art Radio Operations Software

Radio Operations Center (ROC)

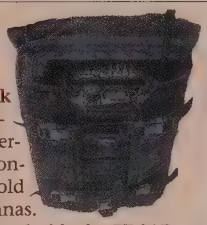
A comprehensive suite of full-featured software solutions for commercial radio, Ham radio, MARS and marine radio control. The only 32-bit Windows software available for operating TNCs in host mode as well as soundcard support for all the digital radio modes. Multi-task quickly and easily integrate other radio or PC productivity tools, and take full advantage of the speed and processing power of the latest Windows XP and Vista-based computers. Order CD ROM **CSS ROCDIGDESKAE** for PK-12/96/232 or **CSS ROCDIGDESKKA** for KANTRONICS TNC ..... each **$99.99**

EmComm Ops

For many radio operators, especially those involved in emergency communications (EmComm), only packet mode is needed. EmComm Ops is an efficient solution for radio operators who only want to use their radio and TNC for packet communications on the VHF bands. Order CD ROM **CSS EMCOMMOPSAEA** for PK-12/96/232 or **CSS EMCOMMOPSKAN** for KANTRONICS TNC.....each **$29.99**

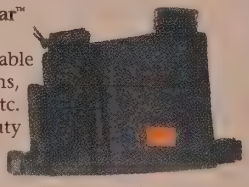
More info available at www.cssincorp.com

PORTABLE PACKS



Communications Outfitters

EXP-1 Expedition Pack for FT-817 – Allows backpack style or table top operation with access to all controls. Zippered pouches hold most any collapsed antennas. Divided radio compartment holds the FT-817 on top, and the lower compartment can hold an amplifier, tuner, accessories, or another radio. Made of high quality, durable nylon with plastic panels for rigidity. Water-resistant.
Dim: 12"w x 4"h x 15"d..... **$99.99**

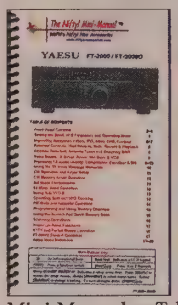


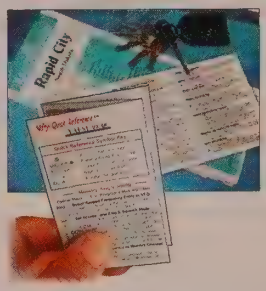
MFJ 18 HamGear™ Tactical Chest Harness – For portable use; DXpeditions, field day, hiking, etc. Durable heavy duty twill burlap, water resistant, cushions blows. Adjustable shoulder straps. The harness is held in place by stretchable elastic belt with snap hook and adjustable sliders supported by nylon straps. An extra cargo pocket holds another radio, accessories, maps, etc. **$29.99**

15 HamGear™ Belt Loop Radio Holder – A durable twill burlap pocket with elastic cord and velcro closure that easily stretches over any HT with antenna. Secures with attached 2 x 3" loop. **$14.99**

Nifty! Ham Accessories

Quick Reference Operating & Programming Guides for Icom, Kenwood and Yaesu Radios





Mini-Manuals – Take it with you wherever you go! Fully laminated, water resistant spiral bound booklets, 4-1/4 x 8 inches, providing simplified step-by-step set-up instructions for all your radio's features. Better and more informational than simple key function data charts. Easy to read and color-coded to quickly find the information you need.

Tri-Folded Reference Cards – Professional quality three-page foldout cheat sheets the size of a credit card for easy carrying in a wallet or purse.

Mobile Quick Reference Cards – The size of a common highway map, 4 x 8 inches. Stores in car-door map-pocket or in the glove box.

Guides for ICOM Models:

QR-IC208H – Quick Reference Card..... **$5.99**
QR-IC2200H – Quick Reference Card..... **5.99**
QR-ICV8000 – Quick Reference Card..... **5.99**
QR-ICT90A – Tri-folded Reference Card..... **5.99**
QR-ICV8 – Tri-folded Reference Card..... **5.99**
MM-IC2820H – 20 page Mini-Manual. **20.99**
MM-IC706MKIIG – 12 page Mini-Manual. **16.99**
MM-IC718 – 12 page Mini-Manual..... **16.99**
MM-IC746PRO – 20 page Mini-Manual. . **20.99**
MM-IC756PRO3 – 20 page Mini-Manual. **20.99**
MM-IC7000 – 20 page Mini-Manual. **20.99**
MM-IC7600 – 26 page Mini-Manual. **24.99**
MM-IC7700 – 26 page Mini-Manual. **24.99**
MM-IC91AD – 20 page Mini-Manual and Tri-folded Quick Reference Card Combo..... **20.99**
MM-IC92AD – 24 page Mini-Manual and Tri-folded Quick Reference Card Combo..... **22.99**

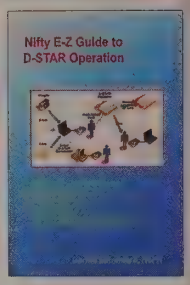
Guides for KENWOOD Models:

QR-THF6A – Set of 2 Tri-folded Ref. Cards. . **$7.99**
QR-TM271A – Quick Reference Card..... **5.99**
MM-TMD710A – 24 page Mini-Manual. .. **22.99**
MM-TMV71A – 16 page Mini-Manual..... **18.99**
MM-TS2000/X – 16 page Mini-Manual. .. **18.99**

Guides for YAESU Models:

QR-VX3R – Set of 2 Tri-folded Ref. Cards... **$7.99**
QR-VX6R – Tri-folded Reference Card..... **5.99**
QR-VX7R – Tri-folded Reference Card..... **5.99**
QR-VX170/177 – Tri-folded Reference Card. **5.99**
QR-FT270 – Tri-folded Reference Card. **5.99**
QR-FT60R – Tri-folded Reference Card..... **5.99**
QR-FT1802M – Quick Reference Card. **5.99**
QR-FT2800M – Quick Reference Card. **5.99**
MM-VX8R – 22 page Mini-Manual and Tri-folded Quick Reference Card Combo..... **22.99**
MM-FT2000/D – 20 page Mini-Manual.... **20.99**
MM-FT817ND – 12 page Mini-Manual. ... **16.99**
MM-FT857D – 12 page Mini-Manual. **16.99**
MM-FT897D – 12 page Mini-Manual. **16.99**
MM-FT950 – 20 page Mini-Manual. **20.99**
MM-FT450/AT – 12 page Mini-Manual.... **20.99**
MM-FT7800R – 12 page Mini-Manual.... **16.99**
MM-FT8800R – 12 page Mini-Manual..... **16.99**
MM-FT8900R – 12 page Mini-Manual..... **16.99**

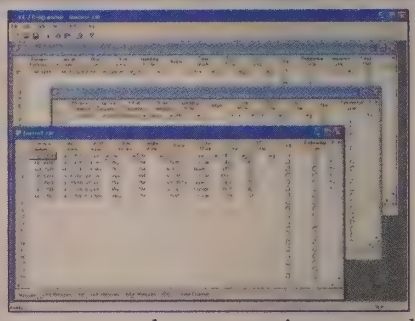
E-Z GUIDE TO D-STAR OPERATION



EZGUIDEDSTAR – Clearly describes the many D-STAR operating modes, enhanced features and popular programs that are core to the D-STAR communications experience. How D-STAR repeater systems are configured and inter-communicate via the internet, the nuts-and-bolts of how to program D-STAR transceivers. Understand how to program your radio to take advantage of call routing and linking within your local repeater system and through internet gateways to anywhere in the world. Covers accessory software applications and adapters to take full advantage of D–STAR capabilities **$13.99**

RT Systems

Radio Programming Software



Programmers make programming your radio Quick & Easy. New Data Management features.

- Insert or delete channel information without re-entering the entire list.
- "Direct-Link" to ARRL TravelPlus™
- Open several files at once to copy between them; even files for different radios
- Multi-row copy/paste (all data or single column)
- Printing • Find and Go-to
- Sort on any field then un-sort to original order

Available for the following ICOM Radios. Kits include software and DB-9 serial cable.

WCS-T90 – For IC-T90A. **$49.99**
WCS-91 – IC-91A/AD w/D-Star settings. ..**$49.99**
WCS-208 – For IC-208H. **$49.99**
WCS-2200 – IC-2200H w/D-Star settings. **$49.99**
WCS-2820 – IC-2820H w/D-Star settings. **$49.99**
WCS-7000 – For IC-7000..... **$49.99**
WCS-V8000 – For IC-V8000. ..... **$49.99**

RTS-03 USB to Serial Converter Works with RT Systems Programmers. Also connects newer computers without serial ports to older serial controllers, sound card interfaces, etc. RS-232 specs. CD-Rom with drivers for Windows 2000, XP and Vista **$22.99**

MFJ-662 Simplex Pocket Repeater – Your own private portable repeater within your neighborhood or when on the road. As a simplex repeater with another radio it digitally records audio from an out-of-range HT/mobile and then retransmits it, repeating a message up to 32 seconds long. LED lights up when recording. Has a 5-pin header for radio cable (connector included). Uses 9V battery (not included), 9-15 VDC or 110VAC with optional MFJ-1312D. Dim: 2.25"w x 3.75"h x 1"d. **$89.99**

Building Blocks for the Perfect Station

GAP
ANTENNA PRODUCTS

ANTENNAS

ACCESSORIES

QUICK TILT LADDER MOUNT

QUICK TILT GROUND MOUNT

GUY KITS

DSP AUDIO

HEAR IT IN LINE MODULE

HEAR IT ANEM

HEAR IT SPEAKER

A GAP ANTENNA HAS NO TRAPS, COILS, OR ELECTROMECHANICAL DEVICES, WHICH CAN INCREASE LOSS AND DECREASE RELIABILITY. SIMPLICITY IN DESIGN AND OVER 20 YEARS OF EXPERIENCE IN THE AMATEUR COMMUNITY RESULTS IN USER FRIENDLY ASSEMBLY, INSTALLATION AND OPERATION. SIMPLY LINE UP THE BIG PREDRILLED HOLES IN 6063 ALUMINUM OVER THE LITTLE HOLES AND INSERT A SCREW. A GAP IS PRETUNED AND DESIGNED TO HANDLE 1.5 KW PEP WITH A VSWR UNDER 2:1 ACROSS THE ENTIRE BAND*.

See GAP in the Price Guide

BANDS OF OPERATION	2m	6m	10m	12m	15m	17m	20m	30m	40m	80m	160m
GAP CHALLENGER DX	X	X	X	X	X		X		X	X	
31.5' TALL WEIGHS 21LBS SUPPLIED W/DROP IN GROUND MOUNT REQUIRES 3 WIRE COUNTERPOISE @ 25'											
GAP TITAN DX			X	X	X	X	X	X	X	X	
25' TALL WEIGHS 25LBS MOUNTS ON 11/4" MAST NO RADIALS REQUIRED											
GAP VOYAGER DX							X		X	X	X
45' TALL WEIGHS 39 LBS SUPPLIED W/ HINGED BASE REQUIRES 3 WIRE COUNTERPOISE @ 57'											
GAP EAGLE DX			X	X	X	X	X		X	X	
21' TALL WEIGHS 19LBS MOUNTS ON 11/4" MAST NO RADIALS REQUIRED											

MONO GAP

Simple, easy to assemble, mono band antenna. Ideal for very limited space. Perfect for those who operate on a particular band and great for school demos and field days

CONTINUOUS COVERAGE UNDER 2:1 ACROSS THE SPECIFIED BAND.

EACH SUPPLIED WITH 3 - WIRE COUNTERPOISE PVC GROUND MOUNT 1/2 WAVE FEEDLINE

20m MONO GAP
16' Tall
7 lbs

40m MONO GAP
31' Tall
12.5 lbs

DSP NOISE CANCELLING PRODUCTS

THE PERFECT GO - BETWEEN YOUR EARS & YOUR RADIO. DESIGNED TO ELIMINATE NOISE & INCREASE YOUR LISTENING PLEASURE. PLUGS INTO THE EXTERNAL SPEAKER OUTPUT ON YOUR RADIO. ALL UNITS REQUIRE A 12-24 VDC POWER SUPPLY.

IN LINE MODULE - IDEAL FOR THE TRUE AUDIOPHILE HOOK UP YOUR FAVORITE SPEAKER TO THIS DSP UNIT AND YOU CAN EASILY CONTROL PROCESSING LEVELS AS WELL AS INPUT AND OUTPUT LEVELS.

SPEAKER - WELL SUITED FOR MOBILE APPLICATIONS THE SPEAKER AND DSP PROCESSOR ARE ALL IN ONE UNIT REAR MOUNTED DIP SWITCHES CONTROL THE LEVEL OF PROCESSINING. SET IT AND FORGET IT

ANEM - SIMILAR TO THE IN LINE, IN A SMALLER PACKAGE. REMOVE THE COVER TO ACCESS SURFACE MOUNT POTS TO ALLOW FOR LEVEL ADJUSTMENTS. PROCESSING LEVEL CAN BE SELECTED VIA EXTERNAL MICRO SWITCH

Life is a JOURNEY. Enjoy the ride!

MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.

For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

Maldol EM-5M SO-239 / PL-259
Footprint: 1.1"x .75"
Max Antenna: 40"

For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

COMET CP-5M SO-239 / PL-259
COMET CP-5NMO NMO / PL-259
Footprint: 3.4" x 1.25"
Max Antenna: 60"

For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

COMET HD-5M SO-239 / PL-259
COMET HD- 5 3/8-24 3/8-24 / PL-259
Footprint: 3.75" x 1.1"
Max antenna: 80"

COMET BNC-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC Super flexible featherweight whip

COMET SMA-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA Super flexible featherweight whip

COMET SMA-503 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Length: 8.75" • Conn: SMA

Maldol MH-209 *(BNC Conn)* **MH-209SMA** *(SMA Conn)* **2M/70CM DUAL-BAND HT ANTENNAS**
3" length, soft rubber cover. Good performance in a small package!

COMET NEW! CSB750A DUAL-BAND 2M/440MHZ W/FOLD-OVER
Gain & Wave: 146MHz 3.6dBi 1/2 wave, 446MHz 6.1dBi, 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 42"
• Conn: PL-259 • Max Pwr: 150W

COMET NEW! CSB770A DUAL-BAND 2M/440MHZ W/FOLD-OVER
Gain & Wave: 146MHz 4.4dBi 5/8 wave center load, 446MHz 6.9dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less • Length: 51" • Conn: PL-259 • Max Pwr: 150W

COMET NEW! CSB790A DUAL-BAND 2M/440MHZ W/FOLD-OVER
Gain & Wave: 146MHz 5.1dBi 7/8 wave center load, 446MHz 7.7dBi 5/8 wave x 3 center load • VSWR: 1.5:1 or less • Length: 62" • Conn: PL-259 • Max Pwr: 150W

Maldol AX-50 DUAL-BAND 2M/440MHz
Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

Maldol AX-75 DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

Maldol AX-95 DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

COMET B-10 / B-10NMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 0dBi 1/4 wave • 446MHz 2.15dBi 1/2 wave • Length: 12"
• Conn: B-10 PL-259, B-10NMO - NMO style • Max Pwr: 50W

COMET SBB-2 / SBB-2NMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 2.15dBi 1/4 wave • 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18"
• Conn: SBB-2 PL-259 • SBB-2NMO NMO style • Max Pwr: 60W

Maldol EX-107RB / EX-107RBNMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 2.6dBi 1/2 wave • 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length:29"
• Conn: EX-107RB PL-259 • EX-107RBNMO NMO style • Max Pwr: 100W

COMET SBB-5 / SBB-5NMO DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain and wave: 146MHz 3dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39"
• Conn: SBB-5 PL-259, SBB-5NMO - NMO style • Max Pwr: 120W

COMET SBB-7 / SBB-7NMO DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58"
• Conn: SBB-7 PL-259, SBB-7NMO - NMO style • Max Pwr: 70W

COMET and Maldol Mobile

For a complete catalog, call or visit your local dealer.
Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710
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Maldol MH-511 TRI-BAND 6M/2M/70CM HT ANTENNA • Length: 4" • Conn: Male SMA

Maldol MH-510 TRI-BAND 6M/2M/70CM HT ANTENNA • Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA

COMET HT-224 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

Maldol MH-610 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

COMET SBB-224 / SBB-224NMO TRI-BAND 2M/220/440MHz WITH FOLD-OVER • Gain & Wave: 146MHz 2.15dBi 1/4 wave • 220MHz 3.5dBi 5/8 wave • 446MHz 6dBi 5/8 wave x 2 • Length: 36" • Conn: PL-259 or NMO style • Max Pwr: 100W

Maldol EX-510B / EX-510BNMO TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 1/4 wave • 146MHz 2.15dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 VSWR • Length: 37" • Conn: PL-259 or NMO style • Max Power: 50W FM

COMET SB-15 TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 0dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: PL-259 • Max Pwr: 120W

COMET UHV-4 QUAD-BAND 10M/6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 10M & 6M 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • Length: 55" • Max Power: 10M 120W SSB 6M2M/70cm 100W FM • Conn: PL-259 • 10M and 6M bands have individual tuning stubs

COMET UHV-6 HF/6M/2M/440MHZ MOBILE ANTENNA *80/*20/*17/40/15/10/6/2M/70cm Mobile antenna with fold-over hinge• Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • **L-14 optional 20M coil *L-18 optional 17M coil *L-3.5 optional 80/75M coil • Features: • 6M/2M/ 70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in• Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

UHV-6 in fold-over position.
Fold-over hinge included for easy entry to garage, parking structure, drive-thru etc SB-15 / UHV-4 / UHV-6 / HMC-6S fold-over hinge has a threaded collar to lock the hinge vertically in place. It can't fold-over by itself at highway speed!

Maldol HMC-6S *40/20/15/10/6/2/440MHZ MOBILE ANTENNA WITH FOLD-OVER
Gain & Wave: HF 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF-6M 1.6:1 or less 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/2/70cm 150W FM*HMC-7C optional 40M coil

MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.
All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.

For Small Antennas & Limited Space

	MODEL / ANT CONN / COAX CONN
Maldol EM-5M	SO-239 / PL-259
Footprint:	1.1"x .75"
Max Antenna:	40"

For Medium Size Antennas

	MODEL / ANT CONN / COAX CONN
COMET CP-5M	SO-239 / PL-259
COMET CP-5NMO	NMO / PL-259
Footprint:	3.4" x 1.25"
Max Antenna:	60"

For Tall or Multi-band HF Antennas

	MODEL / ANT CONN / COAX CONN
COMET HD-5M	SO-239 / PL-259
COMET HD-5 3/8-24	3/8-24 / PL-259
Footprint:	3.75" x 1.1"
Max antenna:	80"

COMET and **Maldol** Mobile

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Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710
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UNIVERSAL LIP MOUNTS WITH COAX CABLE COMBINATIONS

Several mounts with coax combos are available to chose from depending on your vehicles available mounting space and antenna size.

No holes to drill, held securely in place with set screws and adjust in multiple planes. Attach to virtually any lip edge that is 1/4" thick or less: trunk lids, van doors, SUV doors, truck doors, hoods, etc...

Deluxe low loss cable assy included for easy entry thru the weather seal without causing water leaks, wind noise, and/or cable damage.

Max power: HF 200W
VHF 75W
UHF 50W

For small antennas & limited space

MODEL / ANT CONN / COAX CONN

Maldol EM-5M SO-239 / PL-259

Footprint: 1.1"x .75"
(Less than 1 sq inch!)
Max Antenna: 40"

For medium size antennas

MODEL / ANT CONN / COAX CONN

COMET CP-5M SO-239 / PL-259
COMET CP-5NMO NMO / PL-259

Footprint: 3.4" x 1.25"
Max Antenna: 60"

For tall or multi-band HF antennas

MODEL / ANT CONN / COAX CONN

COMET HD-5M SO-239 / PL-259
COMET HD-5 3/8-24 3/8-24 / PL-259

Footprint: 3.75" x 1.1"
Max antenna: 80"

Combine the coax style and length you need with a bracket from below.
(assemblies also available with N-connectors)

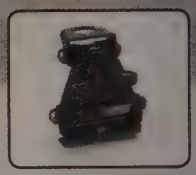
COMET
3D5M / 3D4M
Standard low loss cable assy.
Gold plated SO-239 / PL-259 connectors.
3D5M length 16' 6"
3D4M length 13'

COMET
CK-3M5 / CK-3M
Deluxe low loss cable assy.
Includes 18" of mini RG-188A/U type coax for easy entry from a lip mount without causing water leaks, wind noise or coax damage.
CK-3M5 length: 16'6"
CK-3M length: 9'9"

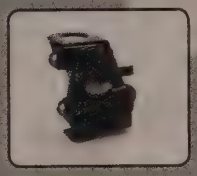
Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments and fit virtually any lip 1/4" thick or less. Soft rubber protects vehicle finish.

COMET
RS-840
Heavy-duty, 2 adjustment planes. For HF and heavier antennas up to 80".

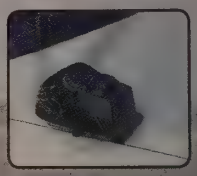
COMET
RS-730
Heavy-duty, 4 adjustment planes, up to 60" antenna.



COMET
RS-720 / RS-720NMO
Med-duty, 3 adj planes, 60" ant.
RS-720: Accepts SO-239 conn
RS-720NMO: Accepts NMO conn



COMET
RS-520
Light-duty, 3 adjustment planes, up to 45" antenna.



Maldol
MK-30H
12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.

Maldol
EM-B80
Light-duty, 2 adjustment planes, up to 40" antenna.

COMET
GRB-5M
Trunk lip mount, low-profile,black anodized stainless steel. Offset washers provide up to 17 deg. vertical adjustment of antenna.16'9" of deluxe cable included, 18" of mini RG-188A/U style coax for easy entry thru the weatherseal. Gold-plated SO-239/ PL-259 connectors.

COMET
CP-5M
Universal lip mount with coax: SO-239 and PL-259 connectors.

The rear doors on newer trucks are the perfect place to mount antennas • No holes to drill • Above roof line • Easy access • When mounting to a van, SUV, truck, etc., use the CP-5M or build your own system with components shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.

COMET and Maldol Mobile

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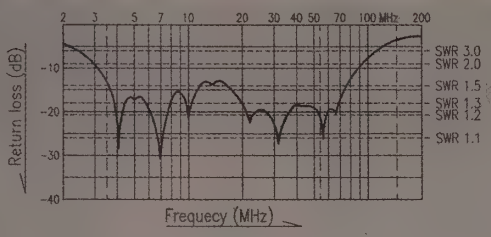
COMET and Maldol

Base Antennas



CHA-250B VSWR graph

"One person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it!" – Dan Dankert N6PEQ

COMET NEW CHA-250B BROADBAND HF/6M GROUND-PLANE ANTENNA A newly designed broadband vertical with NO GROUND RADIALS. EXTREMELY easy to assemble, requires no tuning or adjustments and VSWRs under 1.5:1 from 3.5-57MHz! • TX: 3.5MHz – 57MHz • RX: 2.0 – 90MHz • VSWR is 1.5:1 or less, continuous • Max Power: 250W SSB/125W FM• Impedance: 50 Ohm • Length: 23' 5" • Weight: 7 lbs. 1 oz. • Conn: SO-239 • Mast Req'd: 1" – 2" dia. • Max wind speed: 67MPH

COMET GP-15 TRI-BAND 52/146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7'11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239• 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass

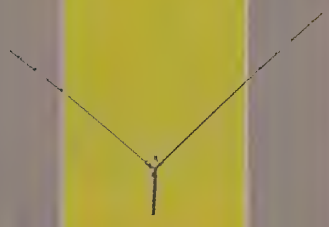
COMET CX-333 TRI-BAND 146/220/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3• 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10'2" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5'11" • Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

COMET GP-6 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10'2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

Maldol HVU-8 ULTRA-COMPACT 8 BAND HF/VHF/UHF VERTICAL ANTENNA 80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side. • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dBi • Gain 70cm: Two 5/8waves in phase, 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M–70cm: 150W FM• Conn: SO-239 • Height: Only 8'6" • Weight: 5lbs. 7ozs.

COMET GP-9 / GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA BEST SELLER!• Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W• Length: 16' 9"" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections



COMET NEW H-422 QUAD-BAND HF DIPOLE Compact 40/20/15/10M "V" or Horizontal Dipole • Max power: 1kW SSB • Length "V" Dipole: 24' 3" • Horizontal Dipole: 33' 10" • Shipping length: 79" • Weight: 11 lbs 14 ozs • Wind Load: 3.02 sq feet • Required mast size: 1.5" - 2.5" diameter • CBL-2000 2kW Balun included • Simple installation, band tuning and profile change

COMET and Maldol Antennas

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DIAMOND ANTENNA *The Standard By Which All Others Are Judged*

ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

Ruggedized Base/Repeater Antennas
X500HNA - X50NA - X30A

X500HNA

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

Features

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

Specifications:

Frequency:	*2m:* 144-148 MHz	*70cm:* 440-450 MHz
Gain:	*2m:* 8.3 dB	*70cm:* 11.7 dB
Power:	200 watts#	
Wind Rating:	90 MPH (no ice)	
Height:	17.8 feet	

X50NA

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

Specifications:

Frequency:	*2m:* 144-148 MHz *70cm:* 440-450 MHz
Gain:	*2m:* 4.5 dB *70cm:* 7.2 dB
Power:	200 watts#
Wind Rating:	135 MPH (no ice)
Height:	5.6 feet

X30A

The X30A works well in areas where height and/or antenna restrictions are an issue.

Features

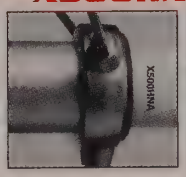
- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

Specifications:

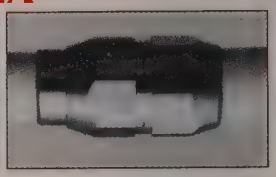
Frequency:	*2m:* 144-148 MHz *70cm:* 440-450 MHz
Gain:	*2m:* 3.0 dB *70cm:* 5.5 dB
Power:	150 watts#
Wind Rating:	135 MPH (no ice)
Height:	4.5 feet

X500HNA

COAX CONNECTION AT BASE END



HEAVY DUTY BASE/ RADIAL ASSEMBLY



STRONG JOINT COUPLINGS

Mono-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
CP22E [1]	144	6.5	200	UHF	9.0	70
◆CP62[1,9]	6m	5.5	200	UHF	22	80
F22A	144	6.7	200	UHF	10.5	112
F23H [8]	144-174	7.8	350	UHF	15.0	90
F718A	440	11.5	250	N	15.0	90
F1230A II	1.2 GHz	13.8	100	N	12.0	112
G200	2.4 GHz	11 dBi	—	N	4.8	135

Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
◆CP610[1,9]	6m/10m	5.5/3.4	200	UHF	22	80
X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X300NA	144/440	6.5/9.0	200	N	10.5	112
X510HDN	144/440	8.3/11.7	330/250	N	17.2	90
X510HDM	144/440	8.3/11.7	330/250	UHF	17.2	90
X500HNA	144/440	8.3/11.7	200	N	17.8	90+

Tri-Band Base/Repeater Antennas

Mast requirement: 1.4"-2.4"

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
V2000A [3,5]	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A [4]	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

BAND: 144=144-148 MHz., 222=222-225 MHz.
420=420-430 MHz., 430=430-440 MHz.
440=440-450 MHz., 1240=1240-1300 MHz.

Power rating should be reduced in repeater service.

NOTES:
1 Heavy duty aluminum construction.
2 X510NJ: 144-147/430-440 MHz.
3 1/4λ rated in dBi.
4 2m: 146-148; 100 watts
5 52-54 MHz only. Tunable.
6 Tunable for 10MHz BW.
7 1.25 Bandwidth.
8 Tunable 144-174 with cutting chart.
9 500W P.E.P./200W FM

See Price Guide for additional models and pricing. ◆*Indicates New Item.*

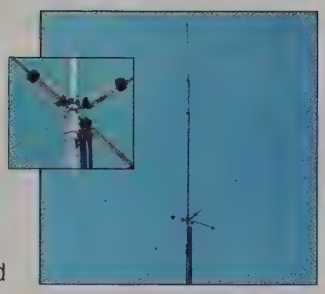
You've seen the rest...now own the best!

MULTIBAND VERTICAL & YAGI ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

Vertical Antennas

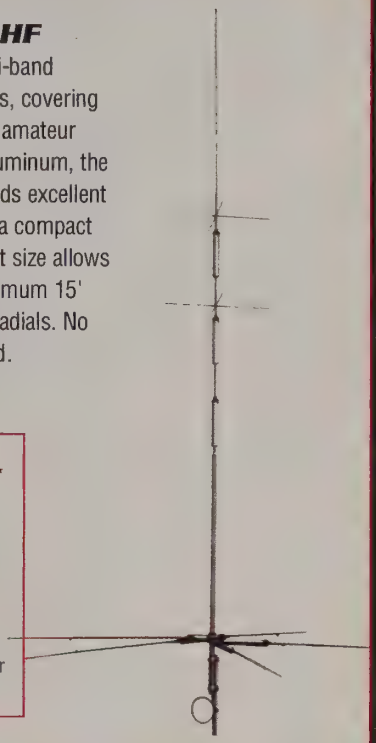
CP725H Quad Band



Diamond's CP725H is a four band (6M, 10M, 15M and 40M) vertical antenna with trap radials. Its light weight, 6.6 pounds, makes it very manageable during the installation process and will allow for a simple mast solution. It is 11.8 feet tall with 71" long radials that can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure. Because of its light weight, and the ability to concentrate radials on one side, the CP725H could be used in an antenna restricted situation where the mast was lowered on its side during daylight and raised while operating during the evening.

CP6AR Multiband HF

Diamond's new CP6AR is a multi-band trap-vertical antenna for HF bands, covering the 75*, 40*, 20, 15, 10 and 6m amateur bands. Made from heavy duty aluminum, the CP6AR assembles easily and yields excellent performance and reliability from a compact base station antenna. Its compact size allows for many mounting options. Minimum 15' diameter required for mounting radials. No additional ground radials required.



Band / MHz	Approx. Bandwidth*
75m / 3.8 MHz	20KHz
40m / 7 MHz	40KHz
20m / 14 MHz	100KHz
15m / 21 MHz	200KHz
10m / 28-29 MHz	500KHz
6m / 50 MHz	1.5MHz

*1.8:1 SWR or better, 2.1:1 SWR or better on 75m.

BB7V Multiband

Diamond's BB7V multiband vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 telescoping sections that nest in each other with a collapsed length of 5 feet and extends to a length of 22 feet when fully deployed. These sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. The extreme ease of raising and lowering this 4.5 pound antenna will make it a favorite for those who have antenna restrictions or travelers wanting a quick and easy wide band antenna solution.

Vertical Antennas — Mast requirement: 1.4"-2.4"

MODEL	FREQ (MHz)	IMPED	WATTS (PEP)	CONN.	BOOM	WEIGHT LNTH.
BB7V	2-30 (W/TUNER)	50	250	UHF	60"/22	4.5 lbs.
CP725H	6m/10m/15m/40m	50	500/500/400/200	UHF	11.8	6.6 lbs.
CP5H	6m/10m/15m/20m/40m	50	500/500/400/400/200	UHF	11.8	6.6 lbs.
CP6AR	75/40/20/15/10/6m	50	200	UHF	15.1	9.9 lbs.

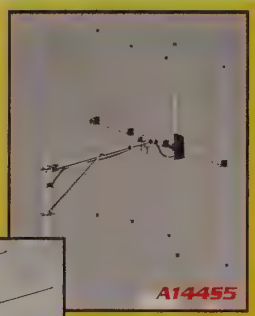
Yagi Antennas

- High gain
- Quality construction
- Easy assembly
- Great for base or portable use
- Factory adjusted - no tuning required

Yagi Antennas

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	BOOM LNTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A144S5	144	9	100	UHF	37.5"	5 element
A430S10	432	13	100	UHF	43"	10 element
A430S15	432	14.8	100	UHF	89"	15 element

Phased
A430S10



A144S5

A502HB

You've seen the rest...now own the best!

DIAMOND S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

Maximum Performance Without Compromise

HV7A Mobile Antenna System

For New HF/VHF transceivers
(Such as: IC706 & IC7000 series, FT100, FT857 & FT8900R)

The HV7A has 5 band capability: 70cm, 2m, 6m, plus 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings. Ideal for users of IC706 & IC7000 series, FT100, FT857 and FT8900R radios. Duplexer may be required for some radios.

Bands Supplied:	10m/6m/2m/70cm
Power, PEP:	HF 120w/VHF 200w
Mount Connection:	UHF
Length:	54"
SWR:	1.5:1 nominal
Opt. Loading Coils:	HVC7 40m
	HVC14 20m
	HVC18 17m
	HVC21 15m

Recommended Antenna Mounts:
K400C, K400S, K600S or K600M

FOLD-OVER

One-Touch Fold-Over Feature.**

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	HT. IN.	ELEMENT PHASING *1/4 rated in dBi.*
M285S*[10]	2m	3.4	200	UHF	52.4	5/8
M285SNMO*[10]	2m	3.4	200	NMO	52.4	5/8
NR22L*	2m	6.5	100	UHF	96.8	2-5/8
HF6FX*[6]	6m	2 dBi	250	UHF	40	1/4
M685S*[6]	6m	2.15 dBi	200	UHF	52.4	1/4
M685SNMO*[6]	6m	2.15 dBi	200	NMO	52.4	1/4
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2 +1/4
NR124NMO	23cm	8.4	100	NMO	25	4-5/8
MG200	2.4GHz	7 dBi	-	N	23.6	3-1/2
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4 , 5/8 ,
MR77	2m/70cm	2.15/3.4	70	MAG	20	1/4 , 1/2
MR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4 , 1/2
NR72BNMO*[6]	2m/70cm	2.15	100	NMO	13.8	1/4 , 1/2
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2 , 1-5/8
NR770HA[7]	2m/70cm	3.0/5.5	200	UHF	40.2	1/2 , 2-5/8
NR770HNMO[8]	2m/70cm	3.0/5.5	200	NMO	38.2	1/2 , 2-5/8
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4 +1/2 , 3-5/8
SG7000A*[6]	2m/70cm	2.15/3.8	100	UHF	18.5	1/4 , 6/8
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2 , 2-5/8
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2 , 2-5/8
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8 , 3-5/8
SG7900ANMO*	2m/70cm	5.0/7.6	150	NMO	62	7/8 , 3-5/8
CR320A*[6]	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF	37.4	1/4 , 1/2 ,
CR320BNMO*[6]	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	NMO	38	2-5/8
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2 , 2-5/8 , 5-5/8
CR627B*[6,9]	6m/2m/70cm	2.1/4.5/7.2	120	UHF	60	1/4 , 1/2 +1/4
CR627BNMO*[6,9]	6m/2m/70cm	2.1/4.5/7.2	120	NMO	60	2-5/8
CR8900A*[6, 11]	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4 , 1/4 1/2 , 2-5/8

6 Grounding required
7 NR770HB same specs but in black finish.
8 NR770HBNMO same specs but in black finish.
9 52-54MHz only
10 Tunable from 140-174MHz
11 FM only
* Not recommended for Magnet Mount
** Fold-Over not available on CR-270A, M285, M285SNMO, M685, M685SNMO, MG200, MR77, MR77SMA, NR72BNMO, and NR73BNMO

See Price Guide for additional models and pricing. *Indicates New Item.*

HT/SCANNER ANTENNAS

HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

SRH320A SMA
2m/1-1/4m/70cm tri-band HT antenna. Flexible. 13 3/4". 10 watts, +3dBR.

SRH805 SMA
2m/70cm/23cm tri-band HT antenna. 1.75", 10 watts.

SRH815 SMA
2m/70cm/23cm tri-band HT antenna. Flexible. 6", 6 watts, +3dBR.

SRH940 SMA
6m/2m/70cm flexible tri-band HT antenna. 18", 10 watts, +2.15dBi. 1/4 50-144MHz, 1/2 440MHz.

SRH789 SMA
RH789 BNC
Adjustable 1/4 93-300MHz; 5/8 300-1100MHz, 7 3/4"-32" +9dBR.

RH951S BNC
High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. 14" (Wide band receive), +6dBR.

RH3 BNC
2m/70cm dual band "Black Bullet" HT antenna. 1.75". 120-900 receive.

RH77CA BNC
High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

SRH77CA SMA
High gain 2m/70cm dual band flexible HT antenna. 15", 10 watts, +6dBR.

SRHF40 SMA
RHF40 BNC
Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

RH205 BNC
2m HT antenna, telescopic, 5/8 fully extended, 47.5"; 1/4 retracted, 9", +9dBR.

RH707 BNC
2m/70cm dual-band tiltable whip - HT antenna. 8 1/4", +3dBR.

SRH999 SMA
6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5", 10 watts, +6dBR.

SRH519 SMA
RH519 BNC
2m/70cm slim dual-band HT antenna. Flexible. 8", 10 watts, +3dBR.

NOTES: 1. dBR refers to Relative Gain increase over typical factory supplied antenna.

Mobile Discone Antenna

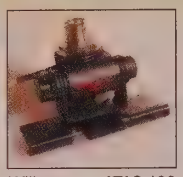
The D220 mobile discone antenna offers outstanding broadband reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts, and will withstand wind speeds in excess of 100MPH.

Receive:	100 to 1600MHz
Transmit:	144, 440, 902, 1200MHz
Gain:	2.15dBi 144, 902, 1200MHz, 5.5dBi 440MHz
Power:	50watts PEP
Impedance:	50 ohms
VSWR:	less than 1.5:1
Type:	1/2 wave 144MHz, 2 x 5/8 wave 440MHz
Length:	35.5" / .90m
Weight:	.85 pounds / 385g
Connector:	UHF / PL259
Mounts:	K400 and K600 series

Designed for today's high performance antennas.

PREMIUM ANTENNA MOUNTS

K400 Series Heavy Duty
Hatchback/Door/Trunk Lid Mount



Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

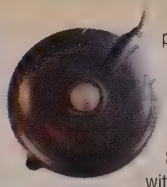
K400C* SO-239 base, 6.5' RG-316/B coax & PL-259
K400CNMO* NMO base, 6.5' RG-316/B coax & PL-259
K400-3/8C* 3/8X24 base, 6.5' RG-316/B coax & PL-259
K400S[1] SO-239 base, 13.5' RG-316/B coax & SMA
K400SNMO[1] NMO base, 13.5' RG-316/B coax & SMA

K412 Series Deluxe
Hatchback/Door/Trunk Lid Mount

Three-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45°. Position adjusting knob.

K412C* SO-239 base, 6.5' coax & PL-259
K412CNMO* NMO base, 6.5' coax & PL-259
K412S[1] SO-239 base, 13.5' coax & SMA
K412SNMO[1] NMO base, 13.5' coax & SMA

K702M Deluxe
Low Profile Magnet Mount

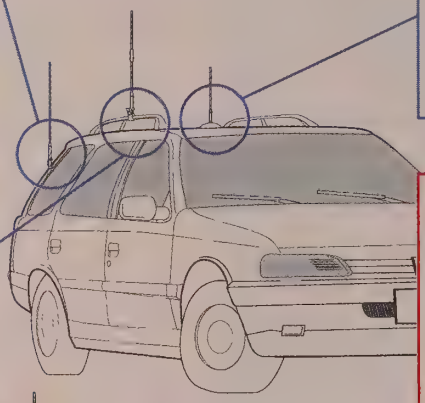


Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4"h. For VHF/UHF antennas up to 50"h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13' RG58A/U cable with PL-259 connector.

Heavy Duty Magnet Mount

2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' RG58A/U coax and PL-259. Recommended for antennas under 45°.

SPM35 SO-239 mount, with PL-259 connector.
DPK4NM-N Type-N mount, with Type-N connector.
SPM-NMO NMO mount, with PL-259 connector.

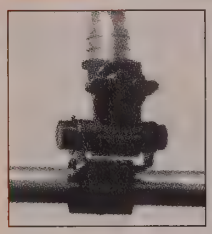


K515 Series
Universal Luggage Rack Mount

Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for medium-weight VHF/UHF antennas under 45°, not requiring RF ground. Position adjusting knob allows antenna to fold over, and lock into horizontal position.

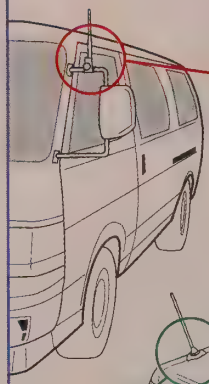
K515S[1] SO-239 base, 13.5' coax & SMA, PL-259
K515SNMO[1] NMO base, 13.5' coax & SMA, PL-259

K540 Mirror/Luggage Rack Mount



Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45°. Position adjusting knob allows antenna to fold over and lock into hoizontal position.

K540KM SO-239 base, 13' coax & PL-259
K540 Mount Only



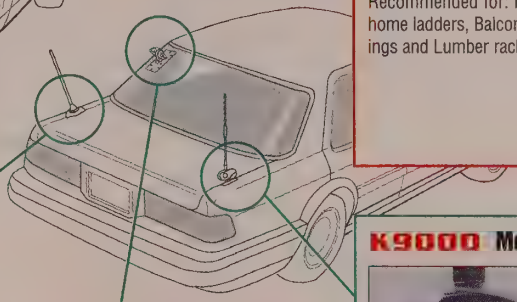
K550
Luggage Rack Mount

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45°. Position adjusting knob allows antenna to fold to horizontal position.

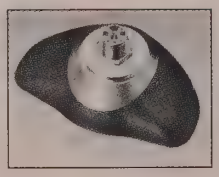
K550KM SO-239 base, 13' coax & PL-259
K550 Mount Only

CRM Mirror/Luggage Rack Mount

Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Balcony railings and Lumber racks.



K600
Variable Angle Trunk Mount



Deluxe aerodynamic trunk mount. Vertical adjustment 0-9°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

K600M SO-239 base, 16.5' two-step RG-188 Teflon® + 10" 5D coax & PL-259
K600S[1] SO-239 base, 13.5' RG-316 Teflon® coax & SMA

HRKS
Adhesive Backed Mount

Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5' RG-316/B Teflon® coax with SMA connector. PL-259 adapter included. Recommended antennas: NR770HA and NR770HB.

K9000 Motorized Mount

Raise and lower your antenna with a touch of a button. Accepts "ground independent" antennas up to 45". 0-90° range. Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series. Recommended cable group: C213 / C213SNMO

K9000TM* Trunk/Hatchback Mount
K9000LRM* Luggage Rack Mount
K9000LRMO* Luggage Rack Mount - Oversize/K515 style clamp.

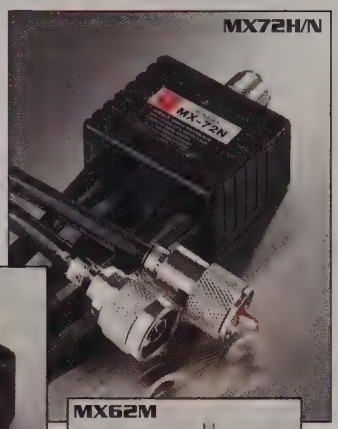
* Use C110 for front radio installations.
[1] Includes SMA to PL259 adapter.

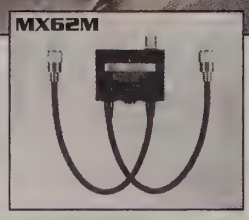
See Price Guide for additional models and pricing. ♦*Indicates New Item.*

The Standard By Which All Others Are Judged

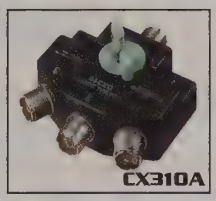
CABLE ASSEMBLIES - COAX SWITCHES LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

Duplexers & Triplexers





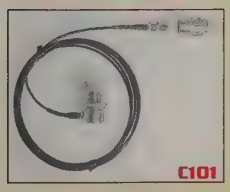
Dummy Loads, Lightning Protection & Coaxial Switches



MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY	LPF		HPF	LPF	BPF	HPF	LPF	HPF
BAND (MHz)	1.6-30	140-150	400-460	1.6-60	110-170	300-950	1.6-56	76-470
PWR CW (ICAS)	400	150	100					
WATTS P.E.P.	1000	400	250	800	800	500	600	
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL	60dB			60dB			50dB	
VSWR	1.2:1			1.2:1			1.2:1	
CONNECTOR COMPLEMENT	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (M)	(M) MIX 50 144 430 (M) (M) (M)			(M) MIX HF VHF (M) (M)	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

MODEL	DESCRIPTION
◆ SP1000	Lightning surge protector, DC-1000 MHz, 400w, SO-239/SO-239
◆ SP3000	Lightning surge protector, DC-3000 MHz, 200w, Type-N (F)
◆ SP3000W	Lightning surge protector, DC-3000 MHz, 200w, Type-N (F), Waterproof.
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type-N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239
DL30N	Dummy load, DC-500 MHz. 15w average/100w peak, Type-N
◆ DL30A	Dummy load, DC-500 MHz. 15w average/100w peak, PL-259

Cable Assemblies



C101

SO-239 base, 6.5' RG316 Teflon® coax & PL-259. Ideal cable assembly for trunk mount radios.

C101NMO	Same as C101 with NMO base. For Diamond's K-Series mounts.
C213SMA	Same as C101, 13.5' RG-316 Teflon® cable, SMA (M)
C213SNMO	Same as C101NMO, 13.5' RG-316 Teflon® cable
C101-3/8C	Same as C101, 6.5' RG-316 Teflon® cable
C101-3/8CKIT	Upgrades any K400 mount to a K400-3/8C. Includes 3/8-24 hardware and C101-3/8C cable assembly

C104SMA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

C110BNC	10' assembly similar to above, uses RG316 Teflon® Coax terminating in BNC-male.
C110SMA	Similar to C110BNC, terminates in SMA-male.
C211	SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110.

C105SMA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

2M/70CM Dual Band Series Antennas

Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

NMO2/70SH $49.99
Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: NMOUHFBASEB
Height: 19"
Whip: WNMO2/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

NMO2/70B $79.99
Freq: 144-148/440-450 MHz
Gain: 1.6/3.5 dBd
Power: 100 Watts
Type: VHF: Center Loaded 1/2 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts.

Tri-Band Scanner Antenna
NMO150/450/800 . . . . . .$32.99
Freq: 150-165/450-470/806-940 MHz
Gain: -7/0/1 dBd
Type: Tri-Band Scanner Only
Mount: NMO
Height: 16.5"

LARSEN ANTENNAS

A Pulse Brand
3611 NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
Fax: 800-525-6749
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com

Kulglass Series High Performance Glass Mount Antennas

Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Larsen's unique bonding enhancer ensure the best possible grip to the glass.

KG2/70CXPL $129.99
Freq: 144-148/442-448 MHz
Gain: 0/2 dBd • 2.4/4.5 dBd*
Power: 100 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Conn: PL-259
Height: 32.75"
* Ground plane required for gain.

Glass mount dual band antenna for 2m/70cm amateur radio frequencies with coax and connector.

KG144UDPL. $89.99
Freq: 144-160 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144

Complete KG glass mount antenna with coax and connector

Base Station Antennas

Larsen manufacturers a variety of small base station antennas for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.

Mounting Pipe Not Included

BSAK $56.99
Freq: 144-512 MHz
VSWR: 1.5:1or less
Power: 200 Watts
Conn: UHF Female
Whip: 51.75"

Complete base station kit for designing a base station unit from 144-152 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Larsen portables. Full soldered connections and silver-plated components improve electrical efficiency. Double spring BNCs reduce wear on the mount.

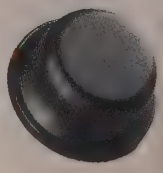
KD42/70 . . . . . .$42.99
Freq: 144-148/440-450 MHz
Gain: Unity
Power: 25 Watts
Type: VHF: Loaded 1/4 Wave
UHF: 1/4 Wave
Conn: BNC
Height: 9"
Impedance matching transformer provides high Q and deeper resonance.

Gift Certificates . . .
available from all AES locations

OM150CK. $69.99
Complete self-mounting, no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.
Freq: 144-174 MHz
Gain: 2.5 dBd*
Power: 200 Watts
Type: 1/2 Wave
Height: 51.75"
Whip: W490
Coax: 17' of RG-58A/U
Conn: PL-259
* Ground plane required for gain.

Mobile GPS Antenna

GPSNMO02 . . . . . .$69.99
Freq: 1575.4 MHz
Gain: 5 dBic/28 ± 2 dB (LNA)
Voltage: 5 VDC
Type: GPS NMO
Height: 1.3"
Diameter: 3"



Hear The Difference!

Industry's Best NMO Mobile Antennas

Larsen's version of the standard 3/4" Motorola TAD/TAE type mount (NMO) uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

NMO27C (Chrome) $45.99
NMO27B (Black) $49.99
Freq: 27-31 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Base: NMO27BCO
Height: 53"
Whip: W490

NMO50C (Chrome) $45.99
NMO50B (Black) $49.99
Freq: 47-54 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Height: 52.5"
Whip: W490

NMOQSPEC (Chrome) $17.99
NMOQSPECB (Black) $24.99
NMOQSPECK (3/4" Kit Chrome) . .$34.99
Freq: 136-960 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 22"
Whip: W200

NMO150C (Chrome) $29.99
NMO150B (Black) $29.99
Freq: 144-174 MHz
Gain: 3 dBd
Power: 200 Watts
Type: 5/8 Wave
Height: 51.5"
Whip: W490

NMO440C (Chrome) $34.99
Freq: 440-460 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 33"
Whip: W154

NMO900B (Black) $42.99
Freq: 890-960 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 12.75"
Whip: W195B.100, enclosed coil

Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

NMOK $24.99
Motorola-style Roof Mount
Size: 3/4"
Coax: 17' RG-58A/U
Conn: PL-259

NMOTLP $34.99
Motorola-style Low Profile Trunk Lip Bracket, Black
Size: 1.75" x 1.75"
Coax: 17' RG-58A/U
Conn: PL-259

NMOMMR $34.99
Motorola-style Round Magnetic Mount
Size: 3.5" Round
Coax: 12' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs.

POK $46.99
SO-239 female type roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U
Conn: PL-259

POMM $46.99
SO-239 female type magnetic mount
Size: 3.5" x 3" rectangle
Coax: 17' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs

NMOKHFUD . . .$15.99
NMO style roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U Dual Shield
Conn: Not Included

TMB34 (Chrome). . . $6.99
TMB34B (Black) . . . $9.99
Trunk gutter bracket, 3/4" hole. Screws included
Size: 2" x 2"

Parts and Accessories

W490 . . . . . $10.99
Chrome .100 tapered replacement whip for 144 MHz (49")

W490B $14.99
Black .100 tapered replacement whip for 144 MHz (49")

WKG2/70. . . . . $32.99
Black .100 tapered replacement whip with open coil for KG2/70 (approx. 33")

W2/70B $32.99
Black .100 tapered replacement whip for NMO2/70B (approx. 31")

RGSS $6.99
3 SuperSeal NMO Gaskets

SPRING $14.99
Shock Spring

HP34 . . . . . .$3.99
(5) 3/4" Rubber hole plugs

KGREINSTALL $10.99
Reinstall Kit for KGs

NMOCAPB. $6.99
Black NMO Rain Cap

LARSEN ANTENNAS

A Pulse Brand
3611 NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
Fax: 800-525-6749
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com

VHF and UHF Mobile Antennas

Unity Gain

THF $26.99

VHF/UHF Trunk Lip Mount Antennas.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector

UHT-1 . . . . Closeout $14.99

VHF/UHF Roof/Deck Hole Mount Antenna.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U

UGM $23.99

VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector

Collinear Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB $17.99
SF-220 220 MHz 3.4 dB . . . . C/O $14.99

- Power rating: 100 watts
- 3/8 x 24 thread
- 5/8 wave

RX-2 144 MHz 3.4 dB . . $29.99
RX-220 220 MHz 3.4 dB C/O $19.99
RX-440 440 MHz 5.0 dB C/O $19.99

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector

Collinear High Gain Mobile Antenna

CG-144 5.2 dB 6 MHz BW $39.99
CG-220 5.2 dB 4 MHz BW $39.99

- Power rating: 200 watts
- 3/8 x24 thread
- 5/8 over ¼ wave
- Collinear design

CGT-144 5.2 dB 6 MHz BW . . . $59.99
CGT-220 5.2 dB 4 MHz BW . . . $49.99

- Coil same as above
- Swivel ball for vertical positioning
- Trunk mount base

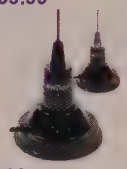
MKR-2 Radial Kit $25.99

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded

MX Series NMO Magnetic Mount Antenna

MX-2 144 MHz 3.4 dB . . $39.99
MX-220 220 MHz 3.4 dB . . $39.99
MX-440 440 MHz 5.0 dB C/O $39.99

- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector



MX-2B 144 MHz 3.4 dB . . $44.99
MX-440B 440 MHz 5.0 dB C/O $39.99

- Same as above but all black coil

BBG Series NMO Swivel Ball & Spring Antenna

BBG-144 3.4 dB . . $49.99
BBG-440-5 5.0 dB C/O $39.99

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB . . $57.99
BBGT-440-5 5.0 dB C/O $39.99

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector

Dual Band 2 meter/ 70cm Mobile Antennas

Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270 . . . . $36.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

MX-270 . . . . $64.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector

LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain . . $27.99
LMG-440-5 5.0 dB gain C/O $19.99

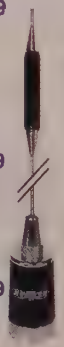
- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin

LMC-144 3.4 dB gain . . $25.99
LMC-440-5 5.0 dB gain C/O $19.99

- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top

LMB-144 3.4 dB gain . . $23.99
LMB-440-5 5.0 dB gain C/O $19.99

- Power rating: 200 watts
- NMO style coil
- Black coil

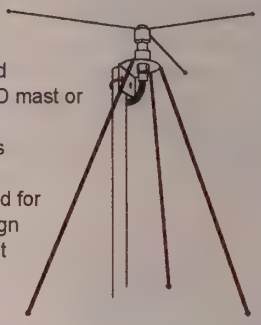


Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX $26.99

- 40 – 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCLB $39.99

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC on the other end

Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRMB $21.99

- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC connector

MOTB $25.99

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC connector

MORB $24.99

- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC connector

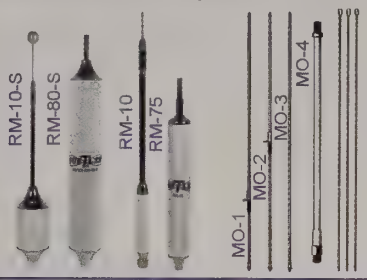
New-Tronics Antenna Corporation
225 Van Story Road
Mineral Wells, Texas 76067-9563

Phone: **940.325.1386**
Toll Free: **877.994.9499**
Fax: **940.325.5077**

Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs	Price
RM-10	Standard	10 m	400 W	150-250 KHz	0.41	$19.99
RM-11	Standard	11 m	400 W	150-250 KHz	0.41	$19.99
RM-12	Standard	12 m	400 W	90-120 KHz	0.41	$19.99
RM-15	Standard	15 m	400 W	100-150 KHz	0.42	$19.99
RM-17	Standard	17 m	400 W	120-150 KHz	0.44	$27.99
RM-20	Standard	20 m	400 W	80-100 KHz	0.46	$27.99
RM-30	Standard	30 m	400 W	50-60 KHz	0.84	$29.99
RM-40	Standard	40 m	400 W	40-50 KHz	0.84	$29.99
RM-60	Standard	60 m	400 W	40-50 KHz	0.84	$32.99
RM-75	Standard	75 m	400 W	25-30 KHz	1.05	$32.99
RM-80	Standard	80 m	400 W	25-30 KHz	1.05	$32.99
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00	$27.99
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00	$27.99
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20	$30.99
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25	$34.99
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80	$43.99
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10	$59.99
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10	$59.99



Mobile HF Antennas
Hustler Masts

MO-1 . . . . $39.99
Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

MO-2 . . . . $39.99
Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

MO-3 . . . . $29.99
Mobile mast, 54" length, for bumper. fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

MO-4 . . . . $24.99
Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

Professional Chrome Series

C-32 . . . . $22.99
Chrome plated 1 ½" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.

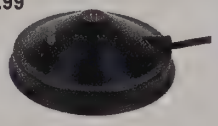
C-30 . . . . $16.99
Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

C-29 . . . . $22.99
Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

Resonator Spring

RSS-2 . . . . $14.99
Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.

Magnet Mount $24.99
MBM "Super" Magnet

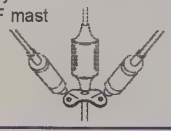


- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".

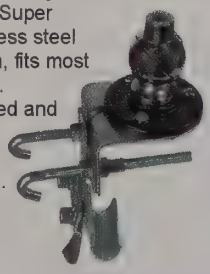
Quick Disconnect

QD-2 . . . . $25.99
100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.

VP-1 . . . . $8.99
Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



Bumper Mount BM-1 . . . . $27.99
Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



Professional Stainless Steel Series

SSM-1 . . . . $56.99
Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

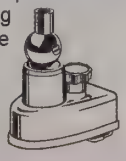
SSM-2 . . . . $33.99
Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

SSM-3 . . . . $31.99
Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.

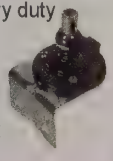
HLM . . . . $26.99 Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

TLM . . . . $25.99 Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

HOT . . . . $27.99 Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.



RVM . . . . $24.99 Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



HUSTLER®

Model G3-144 . . . . $79.99

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

ELECTRICAL
- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

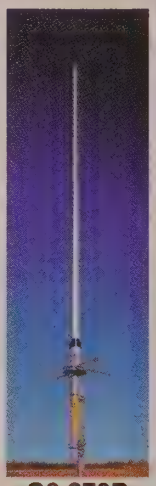
MECHANICAL
- Termination: SO-239
- Length: 7' 5
- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.²
- Mounting: 1 to 1 ¾
- Construction: High strength

Model G3-144

Model G6-270R $199.99
Dual band 2 Meter & 440 MHz

ELECTRICAL
- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz – 2 Meters; 10 MHz – 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: N female
- Length: 7' 6
- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾
- Construction: one piece radome



G6-270R

Model G6-440 . . . . $189.99

ELECTRICAL
- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: Type N female
- Length: 7' 3
- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾

G6-440

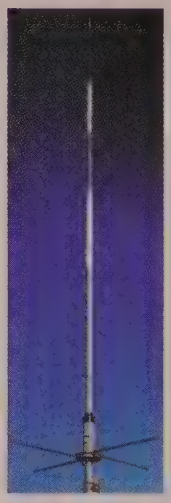
VHF and UHF Omni Directional Fixed Station Vertical Antennas

Model G7-144 . . . . $199.99
Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

ELECTRICAL
- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: N female
- Length: 15' 4
- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 ¾
- Construction: High strength fiberglass & aluminum.

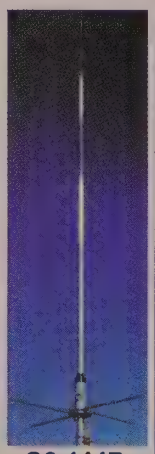


G7-144

Model G6-144B $149.99
Two Meter

ELECTRICAL
- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: SO-239
- Length: 9' 9
- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾

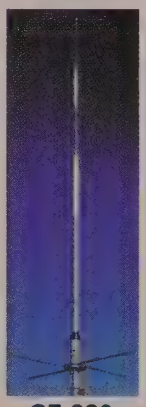


G6-144B

Model G7-220 . . . . $174.99

ELECTRICAL
- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: Type N female
- Length: 10' 2
- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 ¾



G7-220

Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and perma-nent resonance. Our highly accurate traps provide top signal reports and consistent contacts.
Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded – low VSWR at band edges
- Power capability – full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

Model 6-BTV $209.99
Bands 10-15-20-30-40 & 75 or 80 meters
Length/weight 24 ft. / 16.5 lbs.
Mounting Vertical support up to 1.75 O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

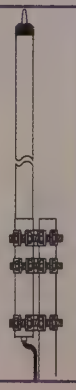
Model 5-BTV $189.99
Bands 10-15-20-40 & 75 or 80 meters
Length/weight 25 ft. 1 in. / 16.5 lbs.
Mounting Vertical support up to 1.75 O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 4-BTV $159.99
Bands 10-15-20-40 meters
Length/weight 21 ft. 5 in. / 15 lbs.
Mounting Vertical support up to 1.75 O.D.
Wind Load 28 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better

Model 30-MTK $49.99
30 meter add on kit for the 4 and 5 BTV

Spirit Series - RepeaterAntenna

Hustler's ominidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions.
Great for your club or tower use.
We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3,6,9, or 12 dB depending on the frequency.
Custom frequencies available, call for a quote.



www.new-tronics.com

New-Tronics Antenna Corporation
225 Van Story Road
Mineral Wells, Texas 76067-9563

Phone: **940.325.1386**
Toll Free: **877.994.9499**
Fax: **940.325.5077**

CUSHCRAFT AMATEUR RADIO ANTENNAS

HF or VHF/UHF… the right antennas for every Ham since 1950

DIPOLE ANTENNAS								
MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	LENGTH (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE ($)
SINGLE BAND								
D-40	40M	UNITY	42.25	1500	1.5-2	1.3	12	369.99
MULTIBAND								
D-4	40/20/15/10M	UNITY	35.8	1500	1.5-2	1.3	13	419.99
D-3	20/15/10M	UNITY	25.8	1500	1.5-2	0.9	9	299.99
D-3W	30/17/12M	UNITY	34	1500	1.5-2	0.9	11	299.99

For detailed information you can download Cushcraft Instruction Manuals from www.mfjenterprises.com

VERTICAL ANTENNAS								
MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	HEIGHT (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE ($)
SINGLE BAND								
MA-160V	160M	0	30-36	1500	1.5	>1	12	299.99
AR-10	10M	3	17.6	1000	1-1.25	1.68	4	99.99
AR-6	6M	3	10.1	1000	1-1.25	0.37	2.5	99.99
ARX-2B	135-160	7	14	1000	1-1.25	0.5	6	109.99
ARX-2	135-160	5	9.3	1000	1-1.25	0.4	4	69.99
AR-2	135-160	3	3.9	1000	1-1.25	0.21	1.5	59.99
ARX-220B	222-225	7	9.3	500	1-1.25	0.3	5	114.99
ARX-450B	435-450	7	4.9	500	0.75-0.88	0.2	1	99.99
AR-450	440-460	3	1.4	500	0.75-0.88	0.1	1	47.99
MULTIBAND								
MA-8040V	80/40M	0/2	23-27	1500	1.5	>1	9	299.99
R-8	40/30/20/17/15/12/10/6M	3	28.5	1500	2	2.5	23	539.99
R-6000	20/17/15/12/10/6M	3	19	1500	1.5-1.75	1.5	12.5	399.99
MA-6VA	20/17/15/12/10/6M	1-2	14.7	250	1.25-2	0.82	6.9	319.99
MA-5VA	20/17/15/12/10M	1-2	14.7	250	1.25-2	0.82	6.5	259.99
AR-270B	2M/430-450	5.5/7.5	7.7	250	1.25-2	0.47	2.4	169.99
AR-270	2M/430-450	3/5.5	3.75	250	1.25-2	0.27	2	129.99

High Performance in all applications / Made in the U.S.A.

BEAM ANTENNAS											
MODEL NUMBER	FREQUENCY (MHZ)	ELEMENTS	GAIN (dBi)	F/B RATIO (dB)	BOOM (FT)	LONGEST ELE (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE ($)
SINGLE BAND											
XM-240	40M	2	6	20-25	22	43	1500	2.5	5.5	55	899.99
TEN-3	10M	3	8	25	8	18	2000	1.5-2	2	10	249.99
A50-6S	6M	6	11.6	26	20	9.9	1000	1.5-2	4.46	18	349.99
A50-5S	6M	5	10.5	24	12	10.25	1000	1.5-2	2.9	11	199.99
A50-3S	6M	3	8	20	6	9.75	1000	1.5-2	1.8	7	139.99
26B2	2M	26	18.8	26	15	3.3	1500	1.5-2	4.84	21.5	599.99
17B2	144-145	17	18	26	31	3.4	1500	1.5-2	3.9	15.75	349.99
13B2	2M	13	15.8	26	15	3.3	1500	1.5-2	1.8	6.7	249.99
A148-20T	2M	10H/10V	13	24	11	3.4	1000	1.25-2	0.39	7	219.99
A148-10S	2M	10	13.2	24	12	3.4	1000	1.25-2	1.21	6	139.99
124WB	2M	4	10.2	19	4	3.3	1500	1.25-2	0.34	3	109.99
A148-3S	2M	3	7.8	18	2.8	3.4	1000	1.25-2	0.27	1.5	72.99
224WB	222-225	4	10.2	20	3	2.2	1500	1.25-2	0.23	1.7	99.99
719B	430-450	19	15.5	25	13.5	13.75	2000	1.25-2	1.2	5.6	249.99
A430-11S	430-440	11	13.2	20	4.6	1.16	350	1.25-1.5	0.42	4	119.99
A449-11S	440-450	11	13.2	20	4.4	1.08	350	1.25-1.5	0.39	4	119.99
A449-6S	440-450	6	10.5	18	2.9	1.08	350	1.25-2	0.3	3	82.99
MULTIBAND											
ASL-2010	20/17/15/12/10M	8	6.4	15-20	18	38	1500	1.5-2	10.1	55	899.99
MA-5B	20/17/15/12/10M	2/1/2/1/2	3.6/1/4.8/1/5.5	22/0/12/0/10	7.3	17.1	1200	1.5	3.2	27	449.99
X-7	20/15/10M	7	12.5	30	18	37	2000	2.5	7.9	60	929.99
A-4S	20/15/10M	4	8.9	25	18	32	2000	1.25-2	5.5	37	699.99
A-3S	20/15/10M	3	8	25	14	27.75	2000	1.25-2	4.4	27	599.99
A3-WS	17/12M	3	8	25	14	25	2000	1.25-2	4.1	23	479.99
A6270-13S	6M/2M/430-450	3/5/5	8/10/10	20/20/18	7.3	9.75	1000/350/350	1.25-2	2.52	9.5	269.99
A270-10S	2M/440-450	5/5	10/10	20/18	6.2	3.4	350	1.25-2	0.73	1.8	169.99
A270-6S	2M/430-450	3/3	7.8/7.8	20/8	2.8	3.4	350	1.25-2	0.3	1.7	129.99

HF MOBILE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ OR METERS)	BANDWIDTH @ 2:1 SWR	HEIGHT (INCHES)	WATTS (PEP SSB)	MOUNT	WEIGHT (OZS)	PRICE ($)
COMET - SEE PAGE 65 FOR MORE INFO							
UHV-6	(1)80/(1)20/(1)17 & 40/15/10/6/2M/70CM	-	44 (min) / 78 (max)	120(HF)/100	PL-259	14-19	159.99
HUSTLER - RESONATORS ONLY - SEE PAGE 77 FOR MORE INFO							
RM-80	80M	25-30 KHz	60 + MAST(2)	400	3/8" X 24	16.8	32.99
RM-80S	80M	50-60 KHz	62 + MAST(2)	1000	3/8" X 24	33.6	59.99
RM-75	75M	25-30 KHz	52 + MAST(2)	400	3/8" X 24	16.8	32.99
RM-75S	75M	50-60 KHz	54 + MAST(2)	1000	3/8" X 24	33.6	59.99
RM-60	60M	40-50 KHz	58 + MAST(2)	400	3/8" X 24	13.44	32.99
RM-40	40M	40-50 KHz	49 + MAST(2)	400	3/8" X 24	13.44	29.99
RM-40S	40M	50-80 KHz	49 + MAST(2)	1000	3/8" X 24	28.8	43.99
RM-30	30M	50-60 KHz	31 + MAST(2)	400	3/8" X 24	13.44	29.99
RM-20	20M	80-100 KHz	31 + MAST(2)	400	3/8" X 24	7.36	27.99
RM-20S	20M	100-150 KHz	31 + MAST(2)	1000	3/8" X 24	20	34.99
RM-17	17M	120-150 KHz	34 + MAST(2)	400	3/8" X 24	7.04	27.99
RM-15	15M	100-150 KHz	33 + MAST(2)	400	3/8" X 24	6.72	19.99
RM-15S	15M	150-200 KHz	29 + MAST(2)	1000	3/8" X 24	19.2	30.99
RM-12	12M	90-120 KHz	30 + MAST(2)	400	3/8" X 24	6.56	19.99
RM-11	11M (CB)	150-250 KHz	24 + MAST(2)	400	3/8" X 24	6.56	19.99
RM-11S	11M (CB)	250-400 KHz	30 + MAST(2)	1000	3/8" X 24	16	27.99
RM-10	10M	150-250 KHz	23 + MAST(2)	400	3/8" X 24	6.56	19.99
RM-10S	10M	250-400 KHz	25 + MAST(2)	1000	3/8" X 24	16	27.99
ICOM - SEE PAGE 98 FOR MORE INFO							
AH-2B	40-6M (REQUIRES ICOM AH-4)(3)	-	98.4	120	INCLUDED	~160	389.99
LAKEVIEW - SEE PAGE 86 FOR MORE INFO							
9175	75M (3.75 - 4 MHz)	10 KHz	94	600	3/8" X 24	16	39.99
9160	60M	60 KHz	94	600	3/8" X 24	12.8	39.99
9140	40M	60 KHz	94	600	3/8" X 24	11.2	39.99
9130	30M	Entire Band (50 KHz)	94	600	3/8" X 24	10.4	39.99
9120	20M	175 KHz	94	600	3/8" X 24	9.6	39.99
9117	17M	Enitre Band (100 KHz)	94	600	3/8" X 24	9.6	39.99
9115	15M	350 KHz	94	600	3/8" X 24	9.6	39.99
9112	12M	Entire Band (100 KHz)	94	600	3/8" X 24	9.6	39.99
9110	10M	1 MHz	94	600	3/8" X 24	9.6	39.99
LARSEN - SEE PAGE 75 FOR MORE INFO							
NMO-27C	10/11M (CB)	-	53	150	NMO	8	45.99
NMO-27B	10/11M (CB)	-	53	150	NMO	8	49.99
MALDOL - SEE PAGE 65 FOR MORE INFO							
HMC-6S	(4)40/20/15/10/6/2M/70CM	-	66	120	PL-259	28	149.99
MFJ - SEE PAGE 86 FOR MORE INFO							
1664	80-6M	-	2' + 4.5' or 10' WHIP	200	3/8" X 24	44.8	169.99
1661	40-6M	-	1' + 4.5' or 10' WHIP	200	3/8" X 24	32.8	139.99
1624	40-6M	-	66	300	3/8" X 24	31.2	89.99
1899T(5)	80-6M	-	12-65 (telescopic)	25	BNC	7.2	79.99
OUTBACKER - SEE PAGE 87 FOR MORE INFO							
STEALTHPLUS	80/75/40/30/20/17/15/12/10/6/2M	-	36	100	3/8" X 24	23.2	319.99
PERTHPLUS	80/75/40/30/20/17/15/12/10/6/2M	-	72	150	3/8" X 24	24	329.99
PERTH	80/75/40/30/20/17/15/12/10M	-	83	150	3/8" X 24	25.6	329.99
OBM (MARINE)	75/40/20/17/10M + ITU Marine	-	67	300	3/8" X 24	37.6	c/o 349.99
OB8	80/75/40/30/20/17/15/12/10M	-	67	300	3/8" X 24	29.6	c/o 279.99
OBS8	80/75/40/30/20/17/15/12/10M	-	67 (2 X 33.5")	300	3/8" X 24	28.8	c/o 269.99
OB8TRI	80/75/40/30/20/17/15/12/10M	-	67 (3 X 22.3")	300	3/8" X 24	31.2	339.99
OB8HP	80/75/40/30/20/17/15/12/10M	-	67	500	3/8" X 24	34.4	329.99
JOEY(5)	80/75/40/30/20/17/15/12/10/6/2M	-	30-50 (telescopic)	20	PL-259	16	299.99
YAESU - SEE PAGE 86 FOR MORE INFO							
YA-007FG	80-10M (REQUIRES YAESU FC-40)(3)	-	80	100	INCLUDED	~90	169.99
ATAS-120	40/20/15/10/6/2M/70CM	-	63	120	PL-259	31.68	299.99
ATAS-25	40/20/15/10/6/2M/70CM	-	84.6 MAX	100(HF) / 50	SO-239(6)	32.8	229.99

(1) Requires optional coils to operate on those bands: L-3.5 for 80/75M, L-14 for 20M, L-18 for 17M
(2) Requires a mast sold separately to complete an antenna: MO-1 is 54" length folds over at 15" above base / MO-2 is 54" and folds over at 27" MO-3 is 54" but does not fold over / MO-4 is 22" and has three retuning tip rods included / All masts use 3/8" X 24 thread
(3) Optional tuner or equivalent is required
(4) Requires optional HMC-7C coil to operate on the 40M band
(5) Designed specifically for the Yaesu FT-817 and other QRP portable radios - meant for portable use
(6) Recommended mount for portable use is a camera-type tripod that is not supplied - meant for portable use

Effective Atmospheric Surge Voltage Protection

Dangerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your hamshack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage … and ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. Effective as these devices are, you still need proper grounding as outlined in the ARRL Handbook.

Lightning Surge/EMI Protectors

The Defense Logistics Agency (DLA) has assigned a National Stock Number (NSN) to the TT3G50 Coax Surge Protector and 3G50 ARC-PLUG™ Cartridge for use in all Military and NATO applications Worldwide.

UL LISTED – Certified protection for your equipment from the effects of lightning and static charges. Much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ – two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you need to run control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weather proofed by the use of O-ring seals and all hardware is stainless steel.

Wide Frequency Range: DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

Low Insertion Loss: 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

ATT-3G50
0-3000 MHz; 200W; N Female. **$59.99**

ATT-3G50-HP
0-3000 MHz; 2000W; N Female. **$59.99**

ATT-3G50U
0-500 MHz; 200W; UHF (SO-239)..... **$49.99**

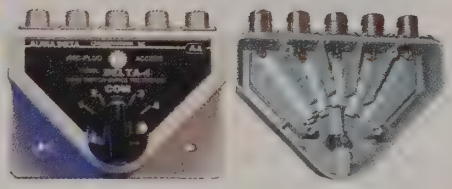
ATT-3G50U-HP
0-500 MHz; 2000W; UHF (SO-239)..... **$49.99**

Replacement Arc-Plug Cartridges
ATT/3G50 for ATT3G50 or ATT3G50U.. **$14.99**
ATT-HP/3G50HP for ATT3G50-HP and ATT3G50U-HP. **$14.99**

Surge Protected Antenna Insulator Kit

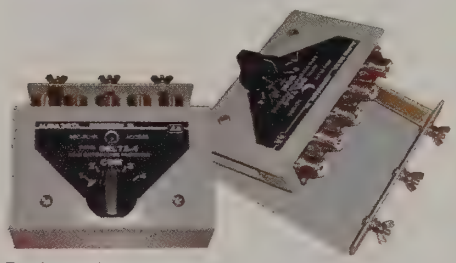
DELTA-C – A center insulator and two end insulators for dipoles and wire antennas using coaxial or balanced feed line. Virtually unbreakable UV/RF resistant material with stainless steel hardware, all connections are hard soldered. Handles full legal power. Built-in Arc-Plug® protection..... **$29.99**
SEP – Replacement Arc-Plug® cartridge.. **$15.99**
DELTA-CIN – End insulator only..... each **$1.99**

Lightning Surge Protected Coaxial Switches



- High quality custom design featuring a rugged cast aluminum housing and durable powder coat finish.
- Constant impedance micro-strip cavities provide very low-loss and high isolation through UHF
- Precision machined switch mechanism with solid detent that snaps positively into each position.
- An easily replaceable Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection.
- Automatically grounds unused antennas. Reduces antenna interaction, and lightning effects.
- Rated for Full Legal power.

DELTA-2B – 2-position, with SO-239 connectors and rated for operation up to 500 MHz..... **$59.99**
DELTA-2B/N – 2-position, with N-type connectors, rated for operation up to 1.3 GHz..... **$75.99**
DELTA-4B – 4-position, with SO-239 connectors, rated for operation up to 500 MHz..... **$89.99**
DELTA-4B/N – 4-position, with N-type connectors, rated for operation up to 1.3 GHz.... **$99.99**

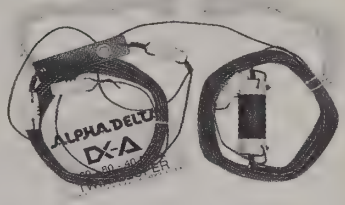


Desktop Antenna Selector – Retains all the features and specifications of the DELTA-4 (above), in a non-skid desktop console design that will sit on your desk right next to your equipment and function without having to be secured or bolted down. The console features a powder coated steel housing and a solid brass ground bus, with #10 wire attachment hardware across the rear of the housing providing a common ground point for all station equipment and accessories. Four positions, includes Arc-Plug™ module surge protection.

ASC-4B – UHF conn., to 500 MHz. **$149.99**
ASC-4B/N – Type-N, to 1.3 GHz. **$159.99**
D4 – Replacement Arc-Plug for switches... **$9.99**

www.alphadeltacom.com

Limited Space Slopers



- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. Go to Alpha Delta's website for sloper installation.

DX-A – A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an inverted V. Legs are 67 ft. and 55 ft. long. **$99.99**

DX-B – A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an inverted V. The limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above the ground..... **$109.99**

Shortened Multibanders

- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated for Full Power.
- Direct 50 ohm feed, no antenna tuner is required except for extended frequency coverage.
- Fully assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon support rope.
- Includes the DELTA-C static protected center insulator and DELTA-CIN end insulators.
- Installs horizontally OR as an inverted V.

DX-CC – 80-40-20-15-10M, 82 ft. long. **$159.99**
DX-DD – 80/40M, 82 ft. long. **$129.99**
DX-EE – 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long..... **$139.99**
DX-LB – 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Capable of full band coverage when using a wide range antenna tuner, 100 ft. **$159.99**
DX-LB PLUS – Same as DX-LB above, but adds 20-10M with parallel wires, 100 ft..... **$189.99**

Full-Size Monoband Dipoles

- 50 ohm coax feed, no traps, handles full power
- Installs horizontally or as an Inverted V
- Rugged, full-size performance
- Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

DX-80 – 75/80 meters, 134 ft. long..... **$69.99**
DX-40 – 40 meters, 67 ft. long. **$69.99**
DX-20 – 20 meters, 34 ft. long. **$69.99**

Verticals

hy-gain

Triband Beams

AV-18HT

AV-18HT Hy-Tower 10/15/20/40/80M Vertical – The premier, best performing vertical in the world. Constructed with rugged hot-dipped galvanized steel tower sections. Features automatic band selection using a unique stub decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple) exists on all bands. Includes all stainless steel hardware & tilt-over base. Use a good ground or 1/4-wavelength radials for best performance. Drop Ship - Truck Collect for Freight **$949.99**

Specifications
- **Bands:** 10, 15, 20, 40, and 80 Meters
- **Gain:** Unity 20, 40, 80; 2 dB on 10/15
- **80M Bandwidth:** 250 kHz @ 2:1 VSWR
- **Power:** 1500W PEP
- **Height:** 53 feet
- **Weight:** 114 pounds
- **Wind Survival:** 75 MPH

AV-18HT-JR Hy-Tower Jr. – Automatic band selection with a unique stub decoupling system which isolates various sections so that a full-size electrical 1/4 wavelength exists on 40, 20, 15 and 10 meters with cage loading on 80 meters. Requires a good ground system or 1/4-wavelength radials for best performance. It has almost no losses - your ground system determines efficiency. It is automatic bandswitching, fed with 50 ohm coax and has low SWR over an exceptional wide bandwidth with a VSWR <1.2:1 at resonance. High-strength, heavy walled 2 in. aluminum main radiator swedged at the top. Mounts on 1-1/4 in. pipe..... **$349.99**

Specifications:
- **Bands:** 10, 15, 20, 40, and 80 Meters
- **Power:** 1500W PEP
- **Height:** 39 ft.
- **Weight:** 25 pounds
- **Survival:** Self-supporting up to 40 mph
- **Mast Size:** 1-1/4 in.

AV-18HT-JR

AV-14AVQ 10/15/20/40M Vertical – A self supporting automatic bandswitching vertical that delivers outstanding performance and a very low angle radiation pattern. All stainless steel hardware..... **$169.99**

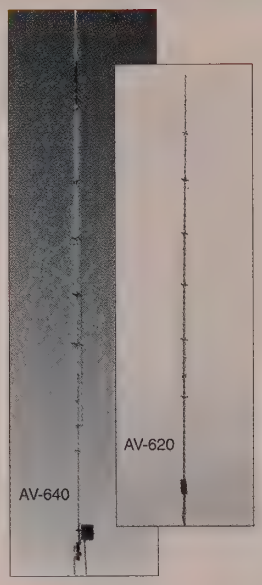
Specifications:
- **Bands:** 10, 15, 20, and 40 Meters
- **Power:** 1500W PEP
- **Height:** 18 ft.
- **Weight:** 9 pounds
- **Wind Survival:** 80 MPH
- **Mount:** 1.5 in - 1.625 in. pipe

AV-18AVQ II 10/15/20/40/80M Vertical

Similar to AV-14AVQ except includes 80M operation. Height: 18 ft., 12 lbs. . **$229.99**

DX-88 10/12/15/17/20/30/40/80M Vertical

All bands easily tuned with adjustable capacitors. Height: 25 ft., 18 lbs..... **$369.99**



Multi-Band *PATRIOT* Vertical Antennas

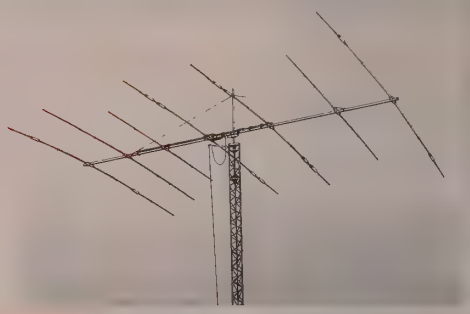
- No Radials
- No Traps
- No Ground
- No Tuning
- Handles 1500W

AV-640 6 to 40 Meter Vertical – Automatic bandswitching with a single coax feed. Uses 1/4-wave stubs on 6, 10, 12, and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30, 40 meters. Instead of typical lossy can traps, the AV-640 resonators are placed in parallel not in series and end loading of the lower HF bands allows efficient operation with a manageable antenna height. An effective counter poise system replaces conventional ground radials. Mounts easily on decks and roofs..... **$399.99**

Specifications:
- **Bands:** 6, 10, 15, 17, 20, 30, and 40 Meters
- **VSWR at resonance (typical):** 1.5:1
- **Power:** 1500W, key down 2 minutes
- **Vertical Radiation Angle:** 17 degrees
- **Horizontal Radiation Angle:** 360 degrees
- **Height:** 25.5 ft.
- **Weight:** 10.5 pounds
- **Wind surface area:** 2.5 square feet
- **Wind Survival:** 80 mph

AV-620 6 to 20 Meter Vertical - No traps, no coils, and uses an effective counterpoise that replaces traditional radials. End fed design using a broadband matching unit with automatic bandswitching and single coax cable feed. Wide VSWR bandwidth, bands are individually tunable. **$299.99**

Specifications:
- **Bands:** 6, 10, 15, 17, and 20 Meters
- **VSWR at resonance (typical):** 1.5A
- **Power:** 1500W, 2 minutes key down
- **Vertical Radiation Angle:** 17°
- **Height:** 22.5 ft.
- **Weight:** 10.5 pounds
- **Wind surface area:** 2.4 sq. ft.
- **Wind Survival:** 80 MPH



TH-7DX 7-Element Tri-Band Beam, 10/15/20 Meters – A dual driven 7-element system maintains a VSWR of <2:1 across all bands, including 10 Meters. No compromise on gain performance. A unique combination of trapped and mono band parasitic elements produces a huge front-to-back ratio. Includes a rugged diecast aluminum boom-to-mast clamp, heavy gauge element-to-boom brackets and a BN-86 ferrite balun. **$799.99**

Specifications:
Gain: 8.77dBi • **F/B:** 21dB • **Power:** 1500W PEP • **Boom Length:** 24 ft. • **Longest Element:** 31 ft. • **Turning Radius:** 20 ft. • **Mast Diameter:** 1.5-2.5 in. • **Surface Area:** 9.4 sq. ft. • **Wind Load @ 80 mph:** 240 lbs • **Wind Survival:** 100 mph • **Weight:** 75 lbs

TH-5MK2 5-Element Tri-band Beam, 10/15/20 Meters – Broadbanded with outstanding gain. It features five elements on a 19 ft. boom with four active elements on 10, 15 and 20 meters. Separate dielectric H-Q traps on each band provides a maximum front-back ratio. Beta Match tuning, DC grounded. Stainless steel hardware. Includes BN-86 balun. **$699.99**

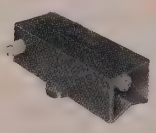
Specifications:
Gain: 8.3dBi • **F/B Ratio:** 20dB • **Power:** 1500W PEP • **Boom Length:** 19 ft. • **Longest Element:** 31.5 ft. • **Turning Radius:** 18.42 ft. • **Mast Dia.:** 1.5 - 2.5 in. • **Surface Area:** 7.4 sq. ft. • **Wind Load @ 80 mph:** 190 lbs • **Wind Survival:** 100 mph. • **Weight:** 57 lbs.

TH-3MK4 3-Element Tri-band Beam, 10/15/20 Meters – The most gain for the money in a full-power, full-size durable tri-bander. Impressive gain and front-to-back ratio. Fits on an average lot and the 4-piece boom makes it ideal for DXpeditions. DC grounded, full power Hy-Q traps and rugged boom to mast bracket. Mounts on a standard 2 in. mast. BN-86 balun recommended. **$469.99**

Specifications:
Gain: 8.0dbi • **F/B Ratio:** 25dB • **Power:** 1500W PEP **Boom:** 14 ft. • **Longest Element:** 27.42 ft. • **Turning Radius:** 15.33 ft. • **Mast Diameter:** 1.9-2.5 in. • **Wind Area:** 4.6 sq. ft. • **Wind Load @ 80 mph:** 118 lb • **Wind Survival:** 95 mph • **Weight:** 35 lbs.

TH-3JRS 3 Element Tri-Band Beam, 10/15/20 Meters – The most popular, fits on most lots. Same top performance as the full power TH-3MK4 in a compact 600W PEP design. **$359.99**

Specifications:
Gain: 8.0dBi • **F/B Ratio:** 25dB • **Power:** 600W PEP • **Boom Length:** 14.75 ft. • **Longest Element:** 27.25 ft. • **Turning Radius:** 14.3 ft. • **Mast Dia:** 1.25-2.0 in. • **Wind Area:** 3.35 sq. ft. • **Wind Load @ 80 mph:** 83 lbs • **Wind Survival:** 80 mph • **Weight:** 21 lbs.



BN-86 Broadband 50Ω Ferrite Balun – Usable from 3 to 30 MHz. Recommended for all HF yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom. Protected SO-239 connector. **$79.99**

Single Band HF Beams

- Stronger, lighter, less surface area & years of High Performance
- Exclusive 50 ohm *BetaMatch™* for Direct Coax feed with great match and DC grounding • A BN-86 50Ω Ferrite Balun is recommended for improved front-to-back ratio.

LJ-103BA 10 Meters, 3 Elements, 8 ft. Boom, 7.9dBi Gain..... **$159.99**
LJ-105CA 10 Meters, 5 Elements, 24 ft. boom, 10.8dBi Gain. ... **279.99**
LJ-153BA 15 or 12 Meters, 3 Elements, 12 ft. boom, 7.9dBi Gain. **199.99**
LJ-204BA 20 or 17 Meters, 4 Elements, 26 ft. Boom, 8.2dBi Gain. **499.99**

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Browse Our Store On-Line at www.aesham.com

MFJ

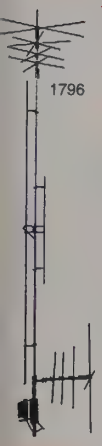
1622 Apartment Antenna – Operate 40 thru 10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft. counterpoise wire and safety rope..... **$99.99**

1910 Telescoping Fiberglass Mast – Great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DXpeditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33 ft. and collapses to 3.8 ft. Bottom section 1.75 in. diameter; 3.3 lbs..... **$79.99**

Telescoping Whips – Available in 12 ft. &10 ft. lengths. Made of 1/2 in. diameter plated brass with a 3/8 x 24 threaded stud. Use as an antenna by itself for 10/12/15M or use it on top of a screwdriver or other base/mid-loaded antenna to greatly improve the efficiency. Use two with an available adapter to make a portable dipole.

1910

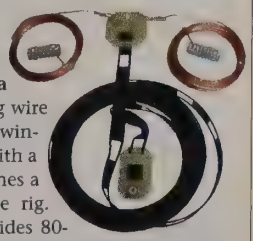
1956 12 ft. (22.5 inches collapsed)... **$34.99**
1954 10 ft. (29 inches collapsed)..... **$29.99**



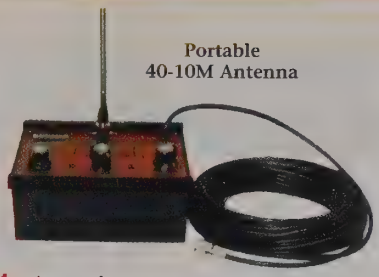
1796

1/2-wave, 6-Band No-radials Vertical
12 ft. tall, Mounts Anywhere, 40-6M

1796 – Only 12 feet high with a tiny, 24 inch foot print. Mount it anywhere: ground level to tower top, apartments, small lots, trailers. Perfect for vacations, field day, DXpeditions, camping. Uses efficient end loading with no lossy traps. And, the entire length is always radiating. Automatic bandswitching, low angle radiation, omni-directional pattern, handles 1500W PEP... **$219.99**



1778
G5RV All-Band Antenna
A center fed, 102 ft. long wire antenna with a 31.5 ft. twin-lead feeder terminated with a SO-239 connector. Matches a 52Ω coax run from the rig. The proven design provides 80-10M coverage with a nominal VSWR. For broadest coverage and lowest VSWR, use your rigs internal or an external antenna tuner. A tuner and a good ground will also allow 160M coverage as a top-loaded wire. Install as a flat top, inverted-V or sloper. Handles 1500W. Assembled as shown... **$44.99**



Portable
40-10M Antenna

1621 – A complete portable 10 to 40 meter antenna for use in practically any location: an unobstructedapartment, campsite, hotel, even at the beach. Consists of a 54 inch telescoping whip antenna mounted on a sturdy, cabinet which houses an antenna tuner and field strength meter. Just place the unit in an unobstructed location, set the bandswitch, apply power, and tune for maximum field strength. Handles 200W PEP SSB and includes 50 ft. of RG-58 coax. The whip is easily removable and collapses to 22 inches for convenient transport. Dim: 6"w x 3"h x 6"d, 3 lbs..... **$99.99**

JSC
Ladder Line

Transmit quality, one-inch wide ladder line. Provides extremely low loss, even at high SWR. Great for an all-band dipole or wire antennas using a balun, an in-shack or remote antenna tuner.

1313 450Ω, #14 (19/27) stranded conductors, 91% velocity factor..... per ft. **64¢**
1313100 100 ft. roll..... **$59.99**
13131000 1000 ft. roll..... **$399.99**

1318 450Ω, #18 (solid) bare copper covered steel conductors..... per ft. **29¢**
1318100 100 ft. roll..... **$24.99**
13181000 1000 ft. roll..... **$199.99**

Hint: For best results use a length of ladder line that is not a multiple of a 1/2-wavelength on any band. Lengths like 43 and 86 ft. are good. Avoid 32, 65, 96, 130, 260 ft. and multiples of those. To avoid detuning use stand-offs to space the line a couple of inches away from metal. Then, twist it about a turn every two feet to reduce noise and wind effects.

ISOTRON
BILAL COMPANY
www.isotronantennas.com

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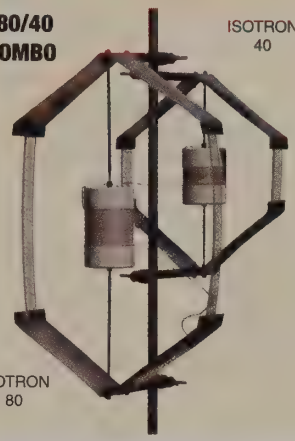
ANTENNAS FOR VERY LIMITED SPACE

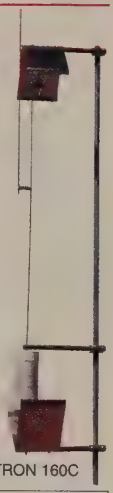


80/40 COMBO

ISOTRON 40

ISOTRON 80

- Easy, quick, and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels, Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very discreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.



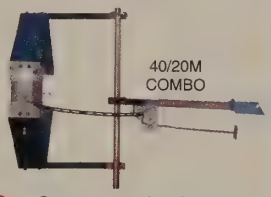
ISOTRON 160C

Common Specifications: 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50–75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Polypropylene and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
HxWxD (in.)	114x16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16½x2x4
BW	100 kHz	110 kHz	250 KHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	**$173.99**	**$109.99**	**$88.99**	**$78.99**	**$78.99**	**$78.99**	**$78.99**

ISOTRON 20

20/15/10M COMBO



40/20M COMBO

80/40 COMBO – (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32"h x 16"w x 30"d; 10 lbs..... **$188.99**

20/15/10 COMBO – Same as individual model specifications. Operate 20/15/10M using one feed line. Dim: 4"h x 32"w x 30"d; 10 lbs. **$198.99**

40/20 COMBO – Offered because the 40 and 20 meter bands were found to be extremely useful for the amateur radio support during the 2005 weather disasters. Improved with a new enhanced coil design that makes tuning easier and more tolerant to higher power. Dim: 22"h x 16"w x 32"d; 6 lbs..... **$167.99**

SPECIAL ORDER! **– You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.**

RadioWavz High Performance HF Wire Antennas

Baluns • Isolators • Antenna wire • Twin-lead • Coax assemblies

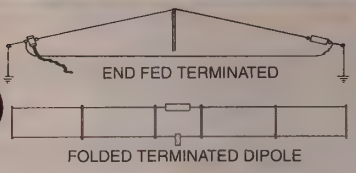
G5RV

TUNED DIPOLE & WINDOM

DOUBLE BAZOOKA

DX OFF-CENTER FED WINDOM

END-FED



G5RV

The basic G5RV covers 80 thru 10 meters. It measures only 102 ft. across the top radiating section which is center-fed through a 32 ft. long, 300Ω twin-lead stub terminating in an SO-239 which accepts any length of 50Ω coaxial cable. The interaction between the top radiating section and the stub makes the G5RV operational on all bands with a moderate VSWR. But using the antenna tuner built-in most radios, or an low-cost external tuner will provide the best match and widest operating bandwidth. A super performer on 20M!

G5RV 102 ft. long, 32 ft. stub **$39.99**
G5RV JR 51 ft. long, 14 ft. stub **28.99**
G5RV LITE 68 ft. long, 32 ft. stub..... **48.99**
G5RV MAX 204 ft. long, 56 ft. stub... **75.99**

TUNED DIPOLES

Simple, efficient and practical single band performers. The radiating section is constructed with #14 AWG UV resistant insulated stranded copper wire. Includes a RadioWavz 1:1 balun which isolates and converts an unbalanced transmission line to balanced resulting in an improved pattern and reduced feedline radiation. Terminates in an SO-239 to connect any length of 50Ω coaxial cable to your rig. May be installed as a flat-top or inverted-V. All assembled and ready to go.

10MC/BALUN 10M dipole, 17 ft.... **$37.99**
12MC/BALUN 12M dipole, 19 ft..... **37.99**
15MC/BALUN 15M dipole, 22 ft. **37.99**
17MC/BALUN 17M dipole, 26 ft. **37.99**
20MC/BALUN 20M dipole, 32 ft. **39.99**
30MC/BALUN 30M dipole, 46 ft. **47.99**
40MC/BALUN 40M dipole, 66 ft. **47.99**
80MC/BALUN 80M dipole, 130 ft. ... **59.99**
160MC/BALUN 160M dipole, 250 ft. **79.99**

DOUBLE BAZOOKA

A broadband half-wavelength antenna that functions at 98% efficiency with a nominal VSWR of less than 2:1 over an entire band. The unique balanced design eliminates the need for a balun and feeds directly with any length of 50Ω coaxial cable. The radiating section is constructed from coaxial cable that has the outer shield opened at the center creating the feed point. The coax center conductor, which is not cut and does not radiate, acts as quarter-wave shorted stub presenting a high impedance to the feed cancelling reactance as frequency changes and increasing the bandwidth. The bazooka design does not radiate harmonics and produces very little feedline radiation. And with the coax outer jacket intact there is no exposed wire. During rain or windy conditions, static charges which can produce annoying receiver noises and the potential for receiver front-end damage cannot build up. Rated for 1500W PEP/SSB. Install horizontally or as inverted V.

40M-DBZ 40M Dbl Bazooka, 70 ft....**$59.99**
75M-DBZ 75M Dbl Bazooka, 127 ft **79.99**
160M-DBZ 160M Dbl Bazooka, 265 ft **129.99**

FOLDED TERMINATED DIPOLE

An excellent broadband antenna for Amateur, MARS, ARES, RACES and CAP operation on any frequency in its design range with low VSWR. It has omni-directional characteristics and performance equivalent to a dipole but with better noise immunity. The performance does not markedly degrade in close proximity to objects, (like metal rain gutters, foliage, etc.). Rated at 500W PEP/SSB, 200W CW. Feeds directly with any length of 50Ω coaxial cable. Mounts horizontally between two supports, or as an Inverted V using a single central support mast. All assembled and pretuned.

FTD-20 7-30 MHz, 20 ft. long... © **$199.99**
FTD-45 5-30 MHz, 45 ft. long..... © **199.99**
FTD-65 3-30 MHz, 65 ft. long..... © **199.99**
FTD-90 1.8-30 MHz, 90 ft. long.. © **249.99**
FTD-MK 3 pole Mounting Kit **45.99**

END FED TERMINATED ANTENNA

EFT-110 An excellent series end-fed broadband antenna often used by the Military for 1.7 to 30 MHz continuous coverage. It has excellent EMI rejection and is extra quiet to capture weak signals. Feeds directly with any length of 50Ω coaxial cable. Its 110 ft. long and installs horizontally between two supports as a terminated sloper or as an Inverted V using a single central support mast. Rated at 500W PEP/SSB, 200W CW... © **$199.99**

DX OFF CENTER-FED WINDOM

An off-center-fed (OCF) 136 ft. long dipole antenna. A favorite of DX'ers world-wide due to its low angle omni-directional pattern. A RadioWavz 4:1 balun positioned at the optimum point along the dipole provides a 52Ω feed point. Radiation from the vertical feeder portion combines with horizontal radiation from the flat top to form a low-angle, omni-directional pattern. Outstanding performance on the designed bands using an antenna tuner. Made with durable, black, UV insulated #14 wire. Rated 200W CW, 1500W SSB/PEP. Install horizontally as a sloper or inverted-V.

DX160 160, 80, 40 meters; 246 ft. long. © **$119.99**
DX80 80, 40, 20, 10 meters; 136 ft. long. © **69.99**
DX40 40, 20, 10 meters; 67 ft. long..... **59.99**

END FEDS

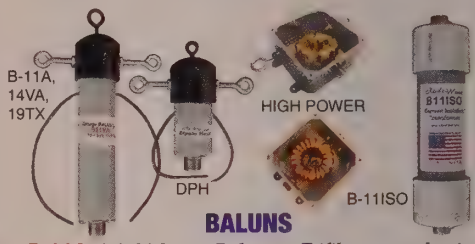
Single band, a full 1/2-wavelength long with a matching network at the end for 50Ω coaxial cable. The pattern is the same as a dipole it can be installed horizontally, vertically or as a sloper. Does not require a ground plane or counterpoise. Great for portable and stealth operations.

EFH10 10 meters; 17 ft. long..... **$45.99**
EFH20 20 meters, 33 ft. long..... **47.99**
EFH40 40 meters; 66 ft. long..... **49.99**
EFH80 80 meters; 132 ft. long..... **79.99**

ANTENNA WIRE/TWIN LEAD

WCCS147-100 100 ft. 14 gauge, 7 strand copper-coated steel antenna wire, 780 lb break **$14.99**
WCCS147-250 250 ft..... **$35.99**
TL-308100 100 ft. 18 ga. 300Ω Twinlead... **$24.99**

© After Radiowavz instant coupon until 2/07/10



BALUNS

B-11A 1:1 Voltage Balun – Trifilar wound, air core. 50Ω unbalanced to 50Ω balanced, 1.8–54 MHz. 1.5kW PEP. Dim: 6.5" x 1.75" dia..... **$21.99**

B-11ISO 1:1 Choke Balun – Provides isolation to control stray RF that may be radiated back into the transmission line. Effective from 1.8–54 MHz. 1.5kW PEP. Dim: 7" x 2.75" diameter,..... **$29.99**

B-14VA 4:1 Voltage Balun – Air core, 200Ω load to a 50Ω or a 300Ω load to 75Ω 1.8 to 30 MHz, 1.5kW PEP. 6.5" x 1.75" diameter.....**$25.99**

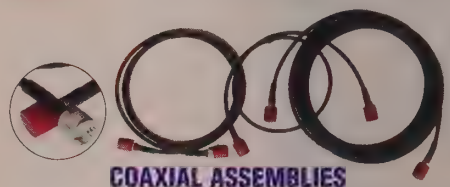
B-19TX 9:1 Isolation Current Balun – 450Ω to 50Ω , or 675 to 75Ω, 1.8–30 MHz, 1.5kW PEP. Dim: 6.5" x 1.75" diameter..... **$29.99**

DPH Dipole Head – Support only, no balun. SO-239, eyehook. Dim: 4" x 1.75"diameter.... **$9.99**

HIGH POWER BALUNS

For applications where a higher power and more rugged balun is required. Uses a large heavy duty core with heavy wire installed in a rugged case and potted in an exothermic epoxy compound. Handles 3.5kW continuous, 7kW intermittent.

HP-B11C 1:1 Choke HP Balun **$75.99**
HP-B11D 1:1 Dipole HP Balun..... **75.99**
HP-B14C 4:1 Current HP Balun..... **97.99**
HP-B14VT 4:1 Tuner Extend HP Balun..... **79.99**
HP-B19LW 9:1 Long wire HP Balun **97.99**
HP-ISOX HP RF Isolation Transformer..... **79.99**



COAXIAL ASSEMBLIES

Ready-made, using high-quality dual shield RG-8X-type 50Ω coaxial cable. Silver/Teflon PL-259 connectors are installed on each end, sealed, and secured with a strain relief sleeve.

Specifications: Non-contaminating, UV stabilized jacket, 0.240 dia.; 0.150" solid center conductor; 90% braid+100% foil shield; High density polyethylene insulation; Velocity factor: 84%; Sweep tested to 3GHz. **Power:** 500W. **Loss/100 ft:** 1.7dB @ 50MHz; 2.453dB @ 100MHz; 4.977 dB @ 400MHz.

J8X-U1 1.5 ft. long..... **$9.99**
J8X-U3 3 ft. long..... **11.99**
J8X-U6 6 ft. long..... **14.99**
J8X-U12 12 ft. long **22.99**
J8X-U25 25 ft. long **29.99**
J8X-U50 50 ft. long **37.99**
J8X-U75 75 ft. long **49.99**
J8X-U1X 100 ft. long..... **63.99**

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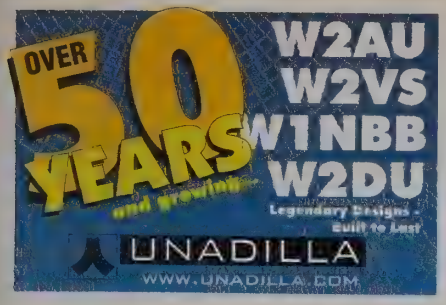
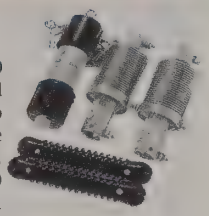


W2AU/W2VS 5-BAND ANTENNA KIT



Resonant on 40 and 80 meters. SWR on 10, 15 and 20 meters is typically 2:1 to 4:1; some radios may require a transmatch. 110 ft. long, rated 2 KW PEP. Includes 40 meter traps, W2AU balun and end insulators. Requires 120 ft. of wire, not included..... **W2AUW2VSNOWI $78.99**

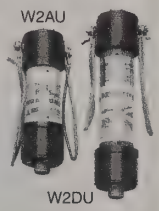
REYCO ANTENNA TRAPS

Add to your dipole for multiband operation on two to seven bands. Add the 40M pair (KW-40) and get "dipole" performance on 40 and 80M. Add five pair and work 10, 15, 20, 40, 80 and 160M with low SWR.

Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.

KW-10 – 10 Meters..... pair **$45.99**
KW-12 – 12 Meters..... pair **45.99**
KW-15 – 15 Meters..... pair **45.99**
KW-17 – 17 Meters..... pair **46.99**
KW-20 – 20 Meters..... pair **46.99**
KW-30 – 30 Meters..... pair **47.99**
KW-40 – 40 Meters..... pair **47.99**
KW-60 – 60 Meters..... pair **49.99**
KW-80CW – 80 Meters CW..... pair **52.99**
KW-80F – 80 Meters Phone..... pair **52.99**

W2AU FERRITE BALUNS



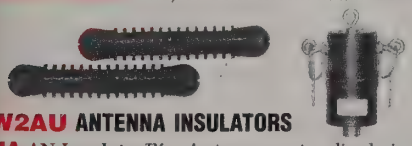
Replaces the antenna center insulator. Smooth unbalanced to balanced transition ensures proper current distribution. DC grounded for lighting protection, center support hook. Usable from 1.8-40 MHz, rated 2KW PEP SO-239 connector.

W2AU 1:1 – 1.1, 1.8-40 MHz ferrite..... **$26.99**
W2AU 4:1 – 1.1, 1.8-40 MHz ferrite..... **26.99**
W2AU BEAM – 1.1, Beam balun..... **27.99**

W2DU CHOKE BALUNS

High efficiency, *transformerless* 1:1 baluns. The HF model is the only one available that works on 160 meters! All rated to handle a VSWR up to 5:1 at the legal limit, allowing use with an antenna tune.

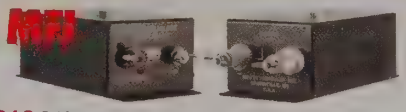
W2DU-HF – 1:1, 1.8-30 MHz Choke..... **$28.99**
W2DU-VHF – 1:1, 30-250 MHz Choke..... **28.99**
W2DU BEAM – 1:1, 40-10m choke..... **29.99**



W2AU ANTENNA INSULATORS

HA AN-Insulator™ – A strong center dipole insulator with built-in lightning protection. SO-239 connector, 3.5" long x 1.75" diameter..... **$11.99**

HE END-Insulator™ – Shatter-proof antenna end insulators. Tough, includes voltage path extenders, positive wire track. Low loss, lightweight and long leakage path. 5.5" long x 1" diameter... pair **$6.99**



912 W9INN Remote Balun – Converts unbalanced coaxial line to balanced ladder line. When using an antenna with balanced line you can still use coax from your rig, thru walls, etc. to a more convenient location to attach the feeders without detuning. Uses a 2-core 4:1 balun wound with teflon® wire and heavy-duty ceramic feed-thru insulators. Handles 1500W. SO-239 connector, ground post and mounting holes.
Dim: 3.25"w x 2.25"h x 7"d..... **$69.99**

4602 Antenna Feedthrough Panel – Simply place in window sill (up to 48 in. wide) and close the window down on it. You can feed three coax-fed antennas, balanced line, random wire and a ground into the shack without drilling through walls. Made of 3/4 inch pressure-treated wood sandwiched between two stainless steel plates. Has three Teflon® SO-239 coax feedthru connectors, three ceramic balanced line/random wire feed-thru insulators and ground connection. Dim: 48"w x 3.5"h x 0.75"d. **$69.99**

LADDER-LOC – Provides a secure attachment for 450Ω ladder type transmission line to dipoles and other wire antennas. Minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point provided for a support rope. UV resistant..... **$12.99**

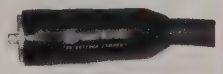
Black Dacron® Polyester Rope

Constructed of strong double braid Dacron® polyester fiber. It's colored black for UV protection and has excellent resistance to weather, mildew and abrasion. The rope ties and cuts easily and the ends seal with the short application of a small flame or hot tool.

After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers. Use for overhead and side boom support on beam antennas to eliminate conductors in the RF field which can cause pattern distortion.

100' – 100 ft., 260+ lbs. strength, 3/32".... **$9.99**
100' 3/16 – 100 ft., 770+ lbs., 3/16"..... **18.99**
100' 5/16 – 100 ft., 1790+ lbs., 5/16"..... **26.99**
350' – 350 ft., 770+ lbs., 3/16"..... **49.99**

CUSHCRAFT
AMATEUR RADIO ANTENNAS



5VB Vinyl Boot Kit
Slide on to coax before installing the connector. Apply silicone grease, slide the boot up to seal, waterproof and protect connector from the elements. Waterproof connector boots come in a package of five along with individual tubes of silicone grease included ..... 5 pack **C/O $14.99**

Fast-acting Gas Discharge Lightning Arresters

Protects radio equipment from static electricity and lightning induced surges up to 5,000 Amps while clamping the surge voltage to less than 50V in less than 100ns. Weather resistant aluminum case, brass hardware. Dim: 3"w x 1"h x 1"d.

LAC-4 200W, SO-239 connectors. .. **C/O $64.99**
LAC-4H 2KW, SO-239 conn. .. **Closeout $69.99**
LAC-4N 200W, type-N female..... **C/O $59.99**
LAC-4NH 2KW, type-N female..... **C/O $79.99**

Replacement Gas Discharge Tubes

LC-2 200W, for LAC-4/4N..... **Closeout $19.99**
LC-2KW 2KW for LAC-4H/4NH. .. **C/O $22.99**

ANTENNA INSULATORS

MFJ 16C01– Made from extra strong glazed ceramic material. Molded ridges give extra-long path to prevent voltage breakdown. Use as center or end insulator for dipoles, doublets, guy wires, etc.
Dim: 2.3" long x 1" diameter... each **99¢**

DELTA-CIN – Made from an extremely rugged UV and RF resistant DELTALLOY material that is so tough, you can drop it off a roof without damage. Large molded ridges prevent voltage breakdown. Dim: 2.7" long x 1.7" diameter..... each **$1.99**

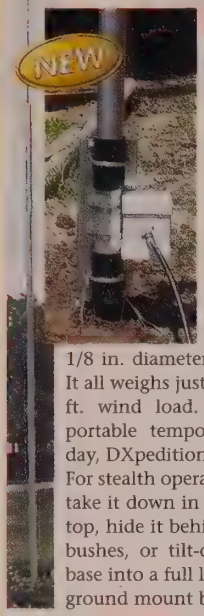
ALPHA DELTA

Off Center-Fed Six Band Antenna

OCF – Covers 75/80, 40, 20, 17, 12 & 10 meters all without the use of an antenna tuner. The rugged broadband design features an integral 6:1 balun and flexible, 65 strand 12 ga. PVC coated wire. The special balun is permanently sealed from the weather, and is internally crimped and soldered to a silver/Teflon® SO-239 connector; a stainless eyebolt provides for attaching a support rope. The two sections are 45 and 90 ft. long requiring an overall install space of 135 ft. Alternately, it can be erected in only 68 ft. of space, but coverage is limited to 40, 20 & 10 meters only. Rated 300W CW/SSB. Comes fully assembled, ready to install. Wt: 7 lbs..... **$189.99**

MFJ 1777 All Band Doublet Antenna – A 102 ft. long flat top (or inverted-V) with 100 ft. of 450Ω ladder line. Covers 160-6 meters when used with an antenna tuner..... **$59.99**

MFJ 43 ft. Self-supporting 160-6M Vertical Antenna



2990 Easily provides coverage across the full frequency range when using an external antenna tuner or a transceiver with a built-in tuner. Strong and built-to-last with 6063 corrosion resistant aircraft strength aluminum tubing and stainless steel hardware. Uses 2 in. diameter, 0.120 in. thick-walled tubing at the bottom. The top 9 ft. section consists of a 1/8 in. diameter solid stainless steel whip. It all weighs just 20 lbs and has only a 2 sq. ft. wind load. Great for permanent or portable temporary operations like field day, DXpeditions, etc. It assembles quickly. For stealth operation, put it up at night and take it down in the morning. Put a flag on top, hide it behind trees, fences, buildings, bushes, or tilt-over. Feeds directly at the base into a full legal limit balun. Includes a ground mount base kit..... **$359.99**

MFJ Antenna Mounts

342T Mirror/Rack/Pipe Mount (3/8-24) – Holds 3/8-24 in. style whips on your automobile's mirror, luggage rack or other pipe. Hard aluminum clamps can mount to a 1/4 or 1/2 in. pipe. Has a SO-239 coax connector (coax not included). **$9.99**

342S Mirror/Rack/Pipe Mount (SO-239) – Similar to MFJ-342T, but has SO-239 antenna connector and includes 17 ft. of coax with a PL-259..... **$14.99**

344 Pipe/Mirror Horizontal Mount – Accepts 3/8-24 in. thread and PL-259 coax conn..... **$9.99**

347 Mini Dipole Mount – Use two 3/8-24 mobile whips (not included) to build a dipole antenna. Mounts on masts up to 1.25" diameter. Heavy-duty solid aluminum with SO-239 connector. .. **$19.99**

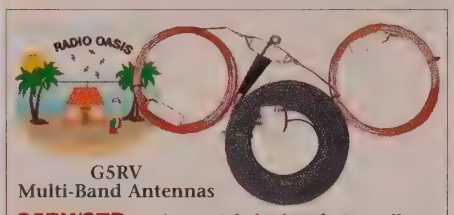
7707 NMO to 3/8-24 Adapter – Mount a 3/8-24 HF whip to a NMO mount. **$8.99**

335BM – **HD Magnet Mount** – 5-in. dia. base, 2-1/2 lbs. NMO-style. 17 ft. of coax w/ PL-259 connector..**$21.99**

335BS – SO-239-style..... **$21.99**

333BM Magnet Mount – 3-in. dia. NMO-style. 17 ft of coax w/ PL-259..... **$14.99**

333BS – SO-239-style..... **$14.99**



G5RV
Multi-Band Antennas

G5RV/STD – A special feeder design allows operation on 80-10M with a suitable antenna tuner. High quality construction with #14 stranded copper wire and a 31.5 ft. of 450Ω #18 ladder-line. Erect as a 102 ft. flat top or an inverted Vee using any length of 52Ω coax. **$59.99**

G5RV/JUNIOR – Same but covers 40-10M; 51 ft. long; 16 ft. #18 ladder line. **$45.99**

G5RV/MINI – Same but covers 20-10M; 25.5 ft. long; 8 ft. #18 ladder line. **$39.99**

Lakeview Co., Inc.

WD4BUM HAMSTICKS®

Two-Piece Monoband Mobile Antennas

Hamstick 75 thru 10M models consist of a 47 inch long x 1/2 inch diameter fiberglass base section with the loading coil wound over its length and covered with black shrink-wrapped PVC. It's fitted on one end with a 3/8" X 24" brass base fitting to fit most mobile mounts. A black 48 inch stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6M model has a 34 inch base section and whip. Frequency vs length graphs are included.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, on 40 and 75M, you can capacitively match the base for a better match using values from the instruction sheet. If you frequently change bands you can use the IM-1 **Inducti-Match** which is an impedance matching coil that simply installs at the base of the antenna and adjusts by using the supplied clip lead to tap up the coil for the best match.

Hamstick Models (band)

9106 (6M)	**9110** (10M)	**9112** (12M)
9115 (15M)	**9117** (17M)	**9120** (20M)
9130 (30M)	**9140** (40M)	**9160** (60M)
9175 (75M)		

All Hamstick models..... each **$39.99**

901 Dipole Mount – Attach two Hamsticks to make an effective shortened dipole. **$24.99**

IM-1 Inducti-Match. **29.99**

TM-1 License Plate Mount – 3/8" x 24. ..... **54.99**

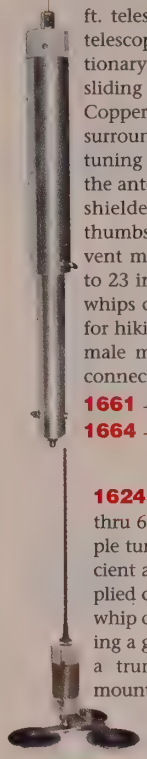
YAESU

ATAS-25 HF/VHF/UHF QRP Field Antenna – Perfect for portable use with the Yaesu FT-100D, FT-817, FT-857 or FT-897. Covers 7, 14, 21, 28, 50, 144 & 430 MHz. Switch bands by changing the supplied elements and adjusting coil. SWR: <2.0:1; Power: (HF/6M) 100W SSB/CW @ 50% duty cycle; (144/430 MHz) 50W. Recommended mount is a camera-type tripod (not supplied). SO-239 base. Dim: 7.2 ft. tall, 2 lbs..... **$229.99**

ATAS-120 HF/6/2/430 Motorized Tuning Antenna – Mechanically resonates the radiating element for lowest SWR using control voltages thru the coaxial cable from an ATAS equipped Yaesu. Recommend use of a duplexer otherwise coaxial cable must be moved manually to correct jack when switching VHF & UHF. Mounts directly onto a standard Diamond or Comet mobile mount. Power: 120W @ <2:1 VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs. **$299.99**

ATBK-100 VHF/UHF Antenna Base Kit – Not required unless operating the VHF or UHF bands with the ATAS-120 off-vehicle. It restores the low-angle response for enhanced performance. Use with suggested base mount. **$89.99**

MFJ Manually Tuned Screwdriver Antenna

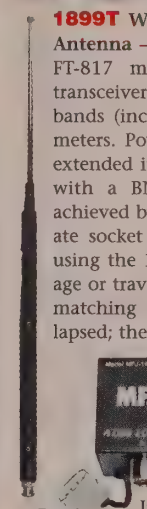


Small and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for greater efficiency stationary use. Quickly and easily tuned by sliding the aluminum cover over the coil. Copper beryllium finger stock completely surrounds the coil for solid connection as tuning is accomplished. Unused turns on the antenna are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place to prevent movement. The 4.5 ft. whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 male mount in the base makes it easy to connect to an existing mount.

1661 – 40-6M, 12 in.; 1 lb. **$139.99**

1664 – 80-6M, 15 in.; 1.25 lbs. .. **$169.99**

1624 HF Mini Bugcatcher – Operate 40 thru 6M, using up to 300W P.E.P. Very simple tuning by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Versatile mounting using a trunk lip, mirror, luggage or tri-mag mount (shown but not included). **$89.99**


1899T

1899T Walkabout™ Multi-band Telescoping Antenna – Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5 ft. long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. For storage or travel, the whip unscrews from the base matching coil and measures only 8 in. collapsed; the base section is 11.5 in. **$79.99**

1925 Screwdriver Antenna Controller Use the Yaesu ATAS screwdriver antenna with Alinco, Kenwood and other transceivers. Installs in-line between the antenna and rig and provides the necessary control voltage to operate the antenna..... **$79.99**

1925I2 Screwdriver Antenna Controller Designed for the **Icom IC-706** with a special control cable and 4-pin connector that mates with the 706 controller port. The Up/Down switch puts the 706 in low power and tunes antenna. When the lowest SWR is found, simply release the switch and you're ready to operate. Simple to install. No modification to the radio or antenna is necessary..... **$79.99**

1910

1910 Telescoping Fiberglass Mast (left) – 33 ft. tall, collapses to 3.8 ft. and weighs only 3.3 pounds. Pull out each section and twist to lock. Its great for portable and temporary use – traveling, camping, from hotels, hamfests, field day, DXpeditions. Use it to make other antenna like loops and quads. The mast is made of super strong fiberglass and flexes to resist breaking, the bottom section has a 1-3/4 in. diameter. Black coating resists UV. **$79.99**

OUTbacker System

The Outbacker – provides efficient, multiband mobile performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-lip mounts.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators, or retuning.

The Outpost Base Tripod Mount – A convenient way to use mobile antennas in BASE or PORTABLE applications. The large (36"x3") fold out feet form a large capacitor with the earth resulting in greatly improved efficiency. Makes an ideal condo, limited space antenna system that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds with no holes, no concrete required. Mount: 3/8" x 24 thread.

See Page 17 in the Price Guide for listing of all OUTbackers and Accessories

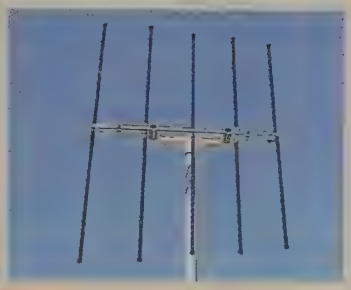
ICOM

HF/50 MHz Five-Band Antenna

AH-703 – Designed for convenient portable operation when using ICOM's IC-703 and IC-703PLUS. It covers the 7, 14, 21, 28 and 50 MHz bands with a 1/4-wave design and has a 20 Watt power capacity. The bands are covered by simply changing the supplied coils. The base terminates in a PL-259 connector which requires a PO-style mount. Dim: 4.6 ft. high; 12 oz.... **$199.99**

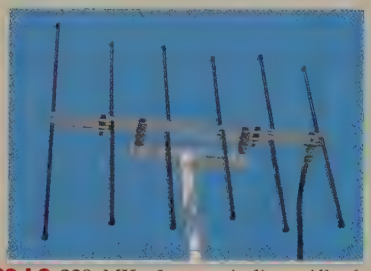
ELK ANTENNAS

Log Periodics – Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!



2M/440-L5 2M/440 MHz Log Periodic – Dual band operation without a duplexer, and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly to change from vertical to horizontal. Quick assembly and disassembly for portability. Color coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom, five black anodized aluminum elements and stainless hardware. 144-148 MHz; 6.8dbd gain / 430-450 MHz; 7dBd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); 24 in. boom; 1.3 lbs. **$124.99**

440-L8 440 MHz Log Periodic – The latest model with increased gain and wide bandwidth. It's really great for 2M fox hunting, allowing radiation of the 3rd harmonic for a harder to find signal. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life. 420-450 MHz; 8 elements; 8dB gain; 1:1 to 1.5:1 SWR; rated 200W; 24 in. boom; 12 oz. **$107.99**



220-L6 220 MHz Log periodic – All of the great Elk Antenna log-periodic features in a popular 220 MHz version. 222-225 MHz; 6 elements; 7.3 dB gain; 1:1 SWR; 28+ dB F/B ratio; 24 in. boom; 1.3 lbs. **$107.99**

ELK BAG Canvas Carrying Bag – For convenient transporting of all ELK antennas... **$24.99**

Silver-teflon® connectors on all models

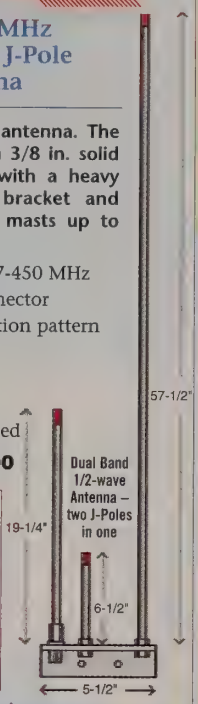
Arrow Antenna

146/440 MHz Dual Band J-Pole Antenna

This a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

OSJ-146/440... $39.00



Mounts just about anywhere: in attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks, boats.

LEO Satellite Antenna

146/437-10 – KK5YY working thru a satellite using his handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. It's engineered to provide maximum gain and efficiency within a small size and weight. The boom is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip on the rear The (3) VHF and (7) UHF elements are strong and lightweight aluminum arrow shafts, plastic tipped for safety. Gamma matched system with BNC connectors for each band. **$73.00**

146/437-10BP – Split boom model... **$79.00**

10W DUPLEXER – Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables with BNC connector. **$59.00**

DUPLEXER SMA – w/ SMA connector. **$64.00**

Goliath

Tri-Magnet Mount

MFJ

336T

336S – Has (3) Super Strong 5-inch magnets bolted to a 1/4 in. thick triangular mount. SO-239 antenna mount. Comes with 17 ft. of coaxial cable and PL-259 connector.

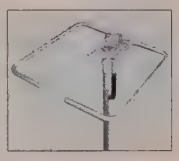
336T – Same as 336S except has a 3/8" x 24 stud mount instead of an SO-239.

Each model ... **$39.99**

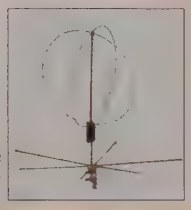
High Performance Yagis – The standard, combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. Big gain and clean patterns for long-haul, tropo and EME. The rugged, waterproof driven element module uses an efficient T-match with 4:1 balun and SNS connectors that are O-ring sealed to a CNC machined block with internal connections encapsulated in silicone gel and a type "N" connector with a beryllium copper, gold-plated center pin. Models for 6M, 2M, 222, 432/440 MHz, 1.2 GHz.

2M-3SS (left) / 6M-3SS (above)

Starter Series Yagis – Low cost, medium performance antennas for your first venture into VHF and UHF bands. Tailored for compact size and portability. Great for field day, vacations, mountain topping, fox hunts, DXpeditions. Each antenna breaks down to no more that 40 in. long, making it a natural for trips. Perfect for deed restricted areas where windload and overall appearance must be kept to a minimum. Uses 3/16" dia. rod aluminum insulated elements, a driven element Gamma Match feed with no balun and a single heavy duty mounting cradle with strainless hardware. Models for 6M, 2M, 222 and 432 MHz.



HO Loops – At times when using highly directional VHF or UHF antennas there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omni-directional **HO-Loop** to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna, with contacts up to 200 miles not uncommon. Rugged tuning and 50Ω matching system; stacking kit/harness available. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW when stacked. Models for 6M, 2M, 222 and 440 MHz.



Eggbeaters – Produces smooth omnidirectional Horizontal/RHC polarity at the horizon. Perfect for satellite or SSB modes. Models for 2M & 432 MHz.

See Page 14 in the Price Guide and for more information go to: www.m2inc.com

Laird TECHNOLOGIES

The Phantom® – The low profile, whipless design doesn't look like a regular antenna so it attracts less attention. Requires NMO-style mount.

TRABT-1420 VHF – Tunable 142-164 MHz, unity gain. Black, 3.3" tall x 1.5" dia. radome. ... **$59.99**

TRAB-4303 UHF – Covers 430-450 MHz, 3 dB gain. Black 3.3"h x 3.5" dia. radome..... **$29.99**

BB-1443 VHF Wideband Antenna Base loaded 5/8-wave. Covers 144-174 MHz, 3dB gain, 49 in. tapered whip. Requires NMO mount. (Black)... **$39.99**

CWB-1443 VHF 5/8-Wave Broadband Self Tuning 144-156 MHz, 3dB gain, 47" tapered whip. (Black). **$49.99**

CWB-4405C UHF Wideband Collinear – Self Tuning 440-470 MHz, 5dB gain, 32" tapered whip. Requires NMO mount. (Black)..... **$49.99**

BB-1442N Broadband, 5/8-Wave No Ground Plane – Base loaded, 144-174 MHz, 2.4dB, 49" tapered whip. ... **$39.99**

BB-4303 UHF 5/8-Wave – Covers 430-450 MHz, 3dB gain, 11.8" straight whip. Requires NMO mount. (Black)... **$34.99**

AB-FT Broadband 1/4-Wave – Tunable 118-896 MHz, unity gain, requires NMO mount. ... **$16.99**

AB-SCANC Collinear Scanner Antenna – For 150/450/800 MHz **receive only**. Requires NMO mount. (Black)..... **$29.99**

CB-144/440C Collinear Dualband VHF/UHF Covers 144-148 & 440-450 MHz, 2/5dB, 36" whip. Rated 200W. Requires NMO mount. (Black).. **$49.99**

MOUNTS

MB-8PST NMO Permanent Brass Hole Mount (A) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Includes 17' of RG-58A/U coax with PL-259 connector.. ..... **$16.99**

TM-8PST NMO Mini-Trunk Lid Mount (B) Chrome, includes 17' of coax with PL-259. **$26.99**

GB-8PSTI NMO Magnetic Mount (C) – Strong, 90 lbs. pull. Mylar sole prevents scratches. Includes 12' RG-58A/U with Teflon® PL-259 connector. . **$34.99**

LBMB-9034 Mirror Mount L-Bracket (D) – Strong aluminum, black. For 3/4" hole mounts... **$10.99**

VTPM Plate Mount (E) – 1" thick, NMO... **$19.99**

Gold-Anodized Yagis
Internally matched, wide band. End-of-boom N-type connector, internal transmission line feeds the driven element.

Y-1363 3-Element VHF – Covers 136-150 MHz, 7.1 dBd, 17 dBd F/B. Rated for 500W. Mounts on mast up to 2.5" diameter. **$99.99**

Y-1365 5-Element VHF – Same but 9.2 dBd gain, 20 dB F/B& rated for 300W..... **$129.99**

Y-4303 3-Element UHF – Covers 430-450 MHz, 7.1 dBd gain, 17 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter. **$99.99**

Y-4305 5-Element UHF – Same but 9.2 dBd gain, 20 dB F/B. **$129.99**

For models see Antenex on Page 4 in Price Guide

SOLARCON ANTENNAS A99

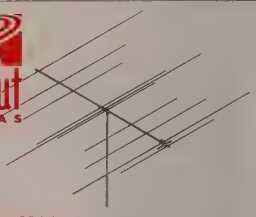
A-99 10M Base Antenna with Twin Ring Adjust-A-Match Tuning – Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers it.

Rugged three-piece white fiberglass construction with triple-plated brass fittings. It's easy to install. The optional GPK-1 ground plane radial kit increases performance!

Full 10 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in..... **$89.99**

GPK-1 Groundplane Kit Use with the A-99 for 30% gain and lower angle of radiation. Collar and 4 fiberglass radials..... **$64.99**

butternut ANTENNAS



YAGI

SKYHAWK 3X10 Triband Yagi – A design breakthrough. 3-band, 10-element, 20/15/10M, rust free. **Drop Ship - Truck Collect for Freight** **$1249.99**

VERTICALS

Take advantage of all HF bands from 80 to 6m with high efficiency - without losses through traps. Both antennas (HF-6V, HF-9V) are only 26 ft. high and can be mounted directly on the ground or elevated on a roof top. Additional accessories may be found in the Price Guide under Butternut.

HF-6VX 6-Band Vertical..... **$389.99**

HF-9VX 9-Band Vertical..... **$449.99**

HF-2V 80/40 Vertical – Optimal output on 80 and 40m because the full length of 32 ft. is used on both bands..... **$299.99**

GM Glen Martin Engineering

FULL BODY CLIMBING HARNESSES

TowerMate LE™

FP-56222 – Two D-ring, 2.7 lbs., S-L.. **$81.99**

FP-56224 – Two D-ring, 2.8 lbs., L-XL. **81.99**

FP-56422 – Four D-ring, 3.0 lbs., S-L.... **94.99**

FP-56424 – Four D-ring, 3.2 lbs., L-XL. **94.99**

EagleTower LE™

FP-66611 – Six D-ring, 5.1 lbs., S. ... **$238.99**

FP-66612 – Six D-ring, 5.2 lbs., M. **238.99**

FP-66613 – Six D-ring, 5.3 lbs., L. **238.99**

FP-66614 – Six D-ring, 5.4 lbs., XL.... **238.99**

All Glen Martin items are Drop Shipped.

See Page 8 in the Price Guide for more Glen Martin products.

Miracle Antenna

MIRACLE WHIP DUCKER IL

Miracle Whip

All Band, Rig Mounted Tunable Whip

For QRP (5W) or SWL rigs – a completely self-contained, all-band 57 inch telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The variable auto transformer design operates effectively without a counterpoise as the continuously variable nature permits finding a good match using whatever ground paths are available ..... **MIA Miracle Whip $139.99**

Miracle Ducker

Wideband for your Wideband Handheld

Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of RX gain on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio **MIA Ducker IL $139.99**

THE SMILEY ANTENNA CO.

HAND TUNED ANTENNAS for HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at the band center (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a PVC heat-shrink coating applied for strength and endurance. All are rated for 50 Watts and have BNC connectors unless stated different.

TAQ2 – 1/4-wave whip antenna, 2M **$10.99**

14610 Super Stick II *(A)* – 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed. **$19.99**

14619 Super Stick II Combo – Same as above, but includes a 2m stubby duck. ..... C/O **$24.99**

14620 5/8 Slim Duck *(B)* – 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long..... **$19.99**

14626 – Same as above with SMA con... **$19.99**

14629 5/8 Slim Duck Combo – As above, but includes a 2m stubby duck..... C/O **$24.99**

14650 Regular Duck *(C)* – For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are *impedance matched* for HTs. **$15.99**

14656 – Same as above with SMA con... **$15.99**

14660 Stubby Duck *(D)* – For 2m. .... C/O **$9.99**

14680 Flex-Coil *(M)* – 2M, 1/2-wave, 7-9dB gain, flexible base, 35" fully extended..... **$25.99**

TAQ220 – 1/4-wave whip, 220 MHz. C/O **$6.99**

22010 Super Stick III – 220 MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9 db gain extended; usable collapsed, or a one-section 1/4-wave. 36" extended, 8¾" collapsed. ... C/O **$14.99**

22019 Super Stick III/Combo – As above, but includes a 220 MHz stubby duck..... C/O **$14.99**

22020 5/8 Slim Duck *(E)* – 220 MHz, 7db gain, flexible base loaded 9" antenna..... C/O **$14.99**

22029 5/8 Slim Duck Combo – Same as 22020, but includes a 220 MHz stubby duck. C/O **$14.99**

22050 Reg. Duck *(F)* – 220 MHz, tuned. **$15.99**

22060 Stubby Duck *(G)* – As above.. C/O **$6.99**

22200 Thin Stick – 1/4-wave telescoping dual band antenna for 144 & 220 MHz bands. **$16.99**

TAQ440 – 1/4-wave whip, 440 MHz. C/O **$6.99**

44010 Super Stick IV *(H)* – 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; 18" extended, 5¾" collapsed..... **$19.99**

44019 Super Stick IV Combo – Same as above, plus has 440 MHz stubby duck. ..... C/O **$19.99**

44020 5/8 Slim Duck *(J)* – 440 MHz, 7db gain, flexible base loaded 5" antenna. **$19.99**

44029 5/8 Slim Duck Combo – As above, plus has a 440 MHz stubby. ..... C/O **$14.99**

44040 Slimline *(I)* – 440 MHz, ¼-wv flex. C/O **$6.99**

44060 Stubby *(K)* – 440 MHz, tuned. C/O **$9.99**

44070 Mini Duck *(L)* – As above. ..... C/O **$6.99**

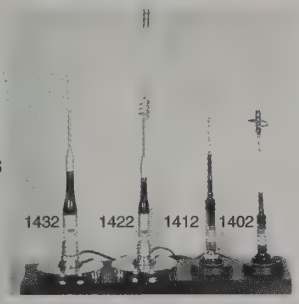
27000 *(N)* – Telescoping 2m/220/440 MHz antenna. 1/4-wave (2m); 5/8-wave (220 MHz); 5/8 & 1/4-wave (440 MHz). **$19.99**

27006 – Same as above with SMA con... **$19.99**

MFJ

RUFFRIDER™ Mobile Antennas

(The mounts shown are not included)



Quality construction using precision machined components. Rugged, designed to battle the elements.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate power at the horizon.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

1402 Junior – 16.5 in., handles 100W. Unity gain on 2M, 3dB gain 440 MHz. No fold-over. . **$34.99**

1412 High Power – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz. **$49.99**

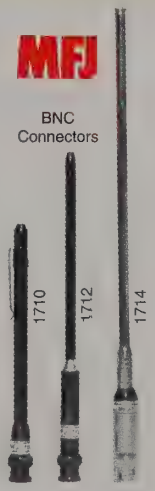
1422 High Gain – 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz. **$49.99**

1432 Hyper Gain – 62.5 in. long. 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W.... **$69.99**

1436 Triple Threat – 59 inches long, stacked elements with high-Q phasing coils give a whopping 7.3dB gain on 440MHz, 4.5 dB on 2M and 2.15dB on 6 Meters. Handles 150W. **$79.99**

HT RANGE EXTENDERS

MFJ



1714 Long Ranger™ 2M Halfwave BNC – This end-fed 1/2-wave is hard to beat. It outperforms a 5/8 wave because it does not need a ground plane. At 40 in. extended, it's shorter, lighter, has more gain and places less stress on the antenna connector. When collapsed to 10.5 in., it performs equal to a regular rubber duck..... **$16.99**

1712 Dual Bander™ 2M/440 MHz BNC – 1/4 wave for 2m and 5/8 wave with gain for 440 MHz. Dim: 4.5 in. collapsed, 14 in. extended. **$14.99**

1712S – Same as 1712 w/SMA connector..... **$14.99**

1710 Pocket Linear™ 3/8 Wave, 2M BNC – Clips in your pocket like a pen. When using your rubber duck in fringe or noisy areas, put on the Pocket Linear, extend out to 24.5 in. and carry on your QSO. Only 5.25 in. collapsed. **$9.99**

Clip Window Mount for Handheld Antennas

When mobile you can get out better by detaching the antenna from your HT and installing it on this handy window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable.

Order **310** with BNC connector or **310S** with SMA. ..... each **$19.99**

Midget Duck for 2M/440 MHz

An amazing antenna for its size. Less than 1 inch tall, it's great for travelling and monitoring and doesn't get in the way. Also works well for signals at 1200 MHz.

Order **1719** with BNC connector or **1719S** with SMA..... each **$19.99**

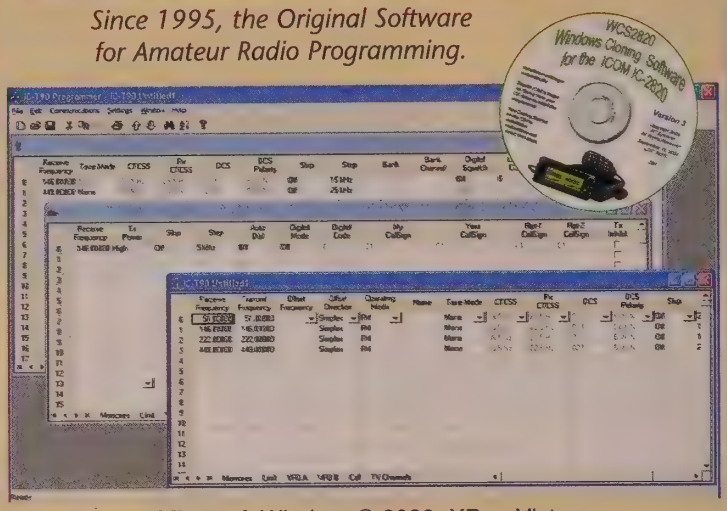
More HT Antennas on Comet/Maldol pages 64 & 65 and Diamond page 71

RT Systems Radio Programming Software

Programming Your New Radio is Soooo Much Easier With

Radio Programming Software from *RT Systems*

Since 1995, the Original Software for Amateur Radio Programming.



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Δ PERSONAL SUPPORT
- U.S. based from Knowledgeable Hams

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RT Systems USB cables are radio tested and guaranteed to work. Problems? – personal support is just a phone call or e-mail away.

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* Includes D–STAR Settings

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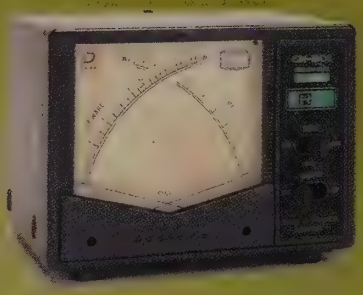
Accurate Measurements NO EXCUSES.

Professionally Engineered Cross Needle Meters

Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.



Professional Series

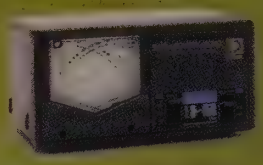
Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6"l x 4¼"h x 4½"d (approx.)

CN-801HP
PEP Reading SWR/Power Meter
Frequency Range: 1.8-200MHz
Forward Power Ranges: 20/200/2000W

NEW

CN-801V
Frequency Range: 140-525MHz
Forward Power Ranges: 20/200W

CN-801SH
Frequency Range: 900-2500MHz
Forward Power Ranges: 2/20W



Economy Series

Accurate and dependable bench meters at an economy price. Lighted, 13.8VDC jack on rear panel. 6"l x 3"h x 4"d (approx.)

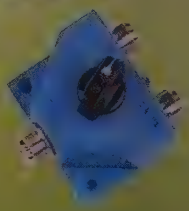
CN-101
Frequency Range: 1.8-150MHz
Forward Power Ranges: 15/150/1500W

CN-103M
Frequency Ranges: 140-525MHz
Forward Power Ranges: 20/200W

CN-103N (N-Type Conns)

NEW! POWER SUPPLY

SS-330W
Convenient, lightweight 30 amp switching supply.
30 amps continuous
Dual meters
Adjustable voltage (5–15V)
Built-in fan
Weighs less than 5 lbs.
Carrying handle



Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.

CS-201
2-Position 600MHz Switch
Max. Power: 2.5kW PEP/1kW CW
Conns: SO-239

CS-201GH
2-Position 2GHz Switch
Max. Power: 1.5kW CW
Conns: Gold plated N-Type

SS-505
Lightweight switching power supply
50 Amp Continuous, 55 AMP peak
Adjustable voltage, 5-15V
Can be used for DC motors requiring peak start-up voltage
Dual-use V/A meter
Built-in fan
Weight: 8lbs 6 oz

NEW

NCG COMPANY

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(714) 630-7024 fax
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Order now from your Nearest AES Store!

MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor friendly. The slender design gives a clean flagpole-like appearance while allowing antennas from 15.2 to 22 sq. ft. in 50mph winds, depending on the model.

FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are lightweight, freestanding, and allow up to 50 sq. ft. of antenna in 50mph winds.

FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. All bases will accept the TRX Series raising fixtures.

FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 70 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

- See **US TOWER** in the Price Guide for Models & Prices
- Download a **US TOWER** Catalog at ustower.com

U.S. Towers are drop shipped direct from the factory. Shipment is FOB Woodlake, CA or Lincoln, KS via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

We also accept Government Credit Cards

UNIVERSAL TOWERS

ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD

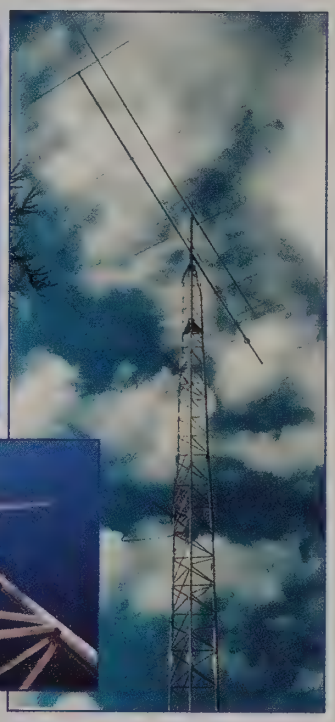
LIGHTWEIGHT • RUST FREE
EASY TO ASSEMBLE • RUGGED STRENGTH
for AMATEUR RADIO • TV • FM • INDUSTRIAL
FIRE • POLICE • MARINE

Consider the advantages of –

ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

UNIVERSAL Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available with 11, 14, 18, 22, 26 or 30 in. wide base sections and a choice of windload rating and accessories.



No Guy Wires!

Self-Supporting at the Rated Load

- Write or Call for a FREE **UNIVERSAL TOWERS** Catalog
- See **UNIVERSAL** in the Price Guide for Configurations
- More **UNIVERSAL** information at universaltowers.com

UNIVERSAL towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

GLEN MARTIN ENGINEERING

Aluminum Towers • Tower Packages
Roof-Top Towers • Hazers • Masts
Tower Climbing Safety Equipment
Grounding & Lightning Protection

- See **GLEN MARTIN** in the Price Guide
- Download a **GLEN MARTIN** Catalog at glenmartin.com

Glen Martin towers are drop shipped direct from the factory. Shipment is FOB Boonville, MO via truck, COD for freight charges will be collected upon delivery by the carrier.

hy-gain ROTATORS

. . . the first choice of hams around the world!

The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in. **$619.99**

Ham-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	**7.5 square feet**
Turning Power (in lbs.)	800
Brake Power (in lbs.)	**5000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Dual race/98 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (JSC 5971 or 5972)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	**2800 ft/lbs.**

The TAILTWISTER SERIES II

is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control. **$729.99**
T-2XD with DCU-1 control. **$1179.99**

TAILTWISTER Specifications

Wind Load cap.(inside tower)	20 square feet
Wind Load (w/ mast adapter)	**10 square feet**
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	**9000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Triple race/138 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (JSC 5971 or 5972)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	**3400 ft/lbs.**

THE HAM-V

is designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Max. mast size: 2.063 in. **$929.99**

HAM-V Specifications

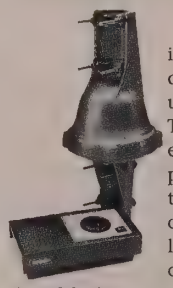
Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	**7.5 square feet**
Turning Power (in lbs.)	800
Brake Power (in lbs.)	**5000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Dual race/96 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (JSC 5971 or 5972)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	**2800 foot/lbs.**

The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration, Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility, Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3". **$1349.99**

HDR-300A Specifications

Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	**N/A**
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	**7500**
Brake Construction	Solenoid operated locking
Bearing Assembly	**Bronze sleeve w/rollers**
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	**7** (JSC 5971 or 5972)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	**5000 ft/lbs.**



The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support. **$329.99**

AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	**1.5 square feet**
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	**450**
Brake Construction	Disc Brake
Ball Bearing Assembly	**Dual race/12 bearings**
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	**5** (JSC 5971 or 5972)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	**300 ft/lbs.**

The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 48 ball bearing race gives proven support. Diecast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support. .. **$429.99**

CD-45-II Specifications

Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	**5.0 square feet**
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	**800**
Brake Construction	Disc Brake
Ball Bearing Assembly	**Dual race/48 bearings**
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	**8** (JSC 5971 or 5972)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	**1200 ft/lbs.**

The DCU-1 PATHFINDER

Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1-degree, and 360-degree choice for center of rotation. Automatic 8-second brake delay reduces stopping torque stress. Six presets store favorite headings. RS-232 control, compatible with many logging and contest programs. **$699.99**

Rotator Accessories

MSHD Heavy duty lower mast support for Ham-IV/V, T-2X/XD. **$109.99**
MSLD Lower mast support for CD-45-II, AR-40. ..... **$49.99**
TSP-1 Tower spacer plate..... **$34.99**

JSC Rotator Cable

5971 Standard duty, 8-wire; 2-18 ga. & 6-22 ga.
5972 Heavy duty, 8-wire; 2-16 ga. & 6-18 gauge.
See JSC on Page 13 in the Price Guide

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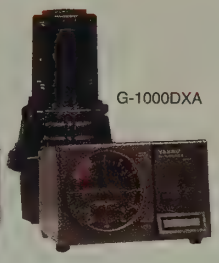


ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.

G-2800DXA – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875–2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375"h; 13.2 lbs..... **$1089.99**

G-1000DXA – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 6-wire cable. Dim: 7.5"dia. x 12.5"h; 7.7 lbs..... **$499.99**

G-450A – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable.
Dim: 7.5"dia. x 12.5"h; 7 lbs. **$259.99**

G-5500 – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5–2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25–1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5"dia. x 7.5"h; 20 lbs..... **$599.99**

G-550 – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5–2.5 in. mast size; 67 second 180° elevation; 1.25–1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5"dia. x 7.5"h; 7.3 lbs..... **$289.99**

G-800DXA – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable. 7.5" dia. x 12.5"h; 7.5 lbs..... **$399.99**

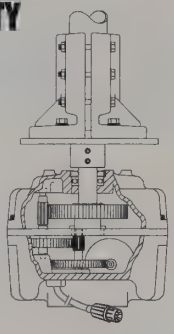
G-800SA – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7.5 lbs..... **$339.99**

ACCESSORIES

GC-038 – Mast clamp..... **$39.99**
GC-048 – Mast clamp for G-2800DXA..... **49.99**
GS-050 – 50mm thrust bearing (1.25"-2"). **34.99**
GS-065 – 65mm thrust bearing (1.5"-2.5"). **54.99**
GS-232B – Interface for DXA rotators.... **589.99**
C-1000 – GS-232B cable for SDX's/5500... **34.99**
GS-680U – Universal, self adjust. bearing. **89.99**
SEP KIT Separation kit for G-5500. ..... **29.99**

K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna

M² SUPER DUTY Rotator



OR-2800PDC Rotator
The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. **Features:** RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display.
Specifications: 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75–3.125 in. mast size; 55-270 second rotation speed; 28 to 42V DC motor 0.1/0.5 degree travel resolution; 110/ 220V AC, 50/60Hz input; Requires two 4-wire runs of rotor cable. Dim: 15.75"h total, 9.75"h rotor; 42 lbs..... **$1399.99**

Channel Master®

9521A Light Duty Rotator

Drive Unit: Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

Control Unit: Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy. **$119.99**

ECG®

U-105 Light-duty Rotator
Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque – easily handles the largest TV/FM and medium amateur VHF/UHF antennas. Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the automatic control accurately shows direction..... **$79.99**
Control Unit: 120 VAC input and 18 VAC output voltage via 3-wire cable to rotator.
Dim: 7"w x 5.875"d x 2.375"h
Rotator Unit: 360° rotation in 70 seconds. Torque of 8 ft.-lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

U-106 Light-duty Rotator – Similar to U-105 but with Presets and Infrared remote... **$89.99**

TB-105 Thrust Bearing – For U-105/106 providing extra support and strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing. **$19.99**

EASY UP

"the Solution for Mounting Smaller Antennas"

Easy-Ups are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Legs extend to any rafter spacing. Completely assembled and includes a pitch pad kit and lag screws.

EZ 48-3ABX – 3 ft. high, 8.5 lbs. **$49.99**

EZ 48-5ABX – 5 ft. high, 12 lbs. **$69.99**

EZ 5-16 – 5 ft. 16 gauge steel mast*... **$16.99**
*Store Pick-up only

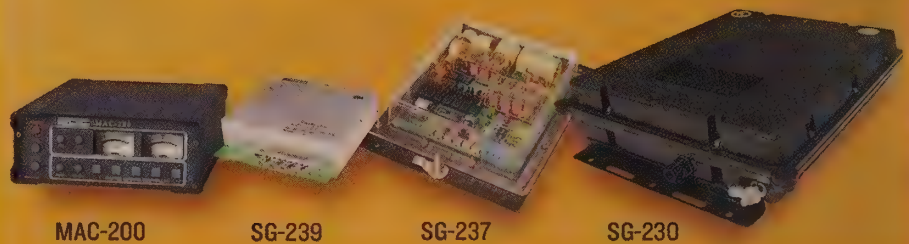
EZ 29-24S HD Double-strap Chimney Mount Includes two "Y" type mounting brackets and 24 ft. of stainless steel strap. **$29.99**

EZ 30-24 – Deluxe wall mount with third support leg. **$39.99**

EZ 31 – H.D. adjustable eave mount. **$34.99**

SGC Smartuners™ Automatic Antenna Couplers

Stop tuning, start talking.



Smartuners™ are the most versatile and reliable automatic tuning antenna couplers available. Using power levels from 1.5 to 500 Watts and with frequency ranges spanning the HF bands from a single antenna, they provide all-purpose automatic tuning ideal for base, mobile or portable operation. Just provide 12V, connect to transceiver, antenna and ground, and get on the air with minimum SWR.

Visit *sgcworld.com* for a detailed review of the Smartuner family, and find the right one for your needs. **Stop tuning, start talking.**

54-14 SG-230 Original Smartuner™
Covers 1.8 to 30 MHz and rated at 200 Watts.
Dim: 16.2"l x 12.2"w x 3.2"h; 8 lbs. **$499.99**

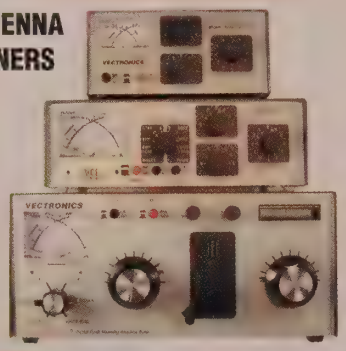
54-15 SG-235 High Power
Covers 1.8 to 30 MHz and rated at 500 Watts.
Dim: 16.2"l x 12.2"w x 3.2"h; 8 lbs.... **$1099.99**

54-18 SG-237 General Purpose Smartuner™
Covers 1.8 to 60 MHz and rated at 100 Watts.
Dim: 9"l x 7"w x 1.5"h; 2 lbs..... **$299.99**

54-22 SG-239 Budget Smartuner™
Covers 1.8 to 30 MHz and rated at 200 Watts.
Dim: 7.5"l x 6"w x 1.9"h; 2 lbs. **$195.99**

54-25 MAC-200 Master Antenna Controller – Operates as your base station control center, eliminating additional switching and tuning. With two built-in computers, using Smartuner™ technology, the MAC-200 can select and tune up to 5 different balanced or unbalanced antennas automatically in less than 2 seconds. The 168 built-in memories can instantly recall previous settings, allowing retuning in less than 10 milliseconds. Convenient meters on the front panel monitor your power and SWR. Covers 1.8 to 60 MHz using 1.5 to 200 Watts. Dim: 8.5"l x 6.5"w x 3"h; 5 lbs. **$265.99**

VECTRONICS ANTENNA TUNERS



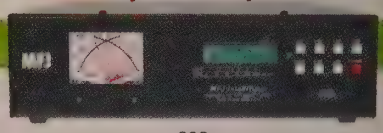
VC-300M Mobile Tuner (top) – Compact, lightweight for mobile or base. Tunes mobile whips, verticals, dipoles, inverted Vs, beams – anything fed by coaxial cable. Covers 1.8–30 MHz at 300W continuous power. The dual-movement Cross-Needle meter monitors RF power output and SWR.
Dim: 7.25"w x 3.5"h x 8.75"d; 2.5 lbs. **$129.99**

VC-300DLP (middle) – Matches any antenna. Full 1.8-30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load.
Dim: 10.25"w x 9.5"d x 3.5"h; 3.4 lbs. **$169.99**

HFT-1500 (bottom) – Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph; Built-in 6-position antenna switch and 4:1 balun.
Dim: 12-1/2"w x 5-1/2"h x 12"d; 10 lbs. **$439.99**

MFJ ANTENNA TUNERS

9982



998

9982 Continuous Carrier™ Antenna Tuner – Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak and average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels and high-current, 1000 pF and 500 pF air variable capacitors. Dim: 13.75"w x7"h x16"d; 15 lbs. **$649.99**

998 Intellituner™ – Covers 1.8 to 30 MHz, rated at 1500W SSB/CW. Ultra-fast automatic tuning matches impedance from 12 to 1600Ω using MFJ's exclusive *IntelliTune™*, *AdaptiveSearch™* and *InstantRecall™* algorithms, and over 20,000 *VirtualAntenna™* memories. Key your transmitter and *InstantRecall™* determines whether that frequency has been used before. If so, tuning is instantaneous. If not, an algorithm measures the impedance, selects the necessary components, and then fine-tunes the SWR. If the antenna impedance is outside the tuner's measurement range, *Adaptive Search™* measures the frequency and determines relevant component values for fast tuning. MFJ's *Amplifier Bypass Control™* (requires interface cable), provides safe tuning. On initiation, any in-line amplifier is bypassed. Next, a low-power CW tuning carrier from your transceiver is keyed. When tuning is complete, your transceiver reverts to its prior power and mode, and re-enables the amplifier. If a match better than a pre-set amplifier SWR trip point cannot be found, the amplifier stays bypassed. A Cross-Needle SWR/Wattmeter displays 300/60W or 3000/600W forward and reflected full-scale power ranges. A two-line, 16-character backlit LCD meter displays SWR, forward/reflected power, frequency, antenna selected, an autoranging bargraph power indication, and the final matching inductor and capacitor values. A memory system provides four antenna selections for each of the two switchable rear panel antenna connectors. A rear binding post for end-fed long wire antennas, balanced line antennas require an external 1.5kW 4:1 balun (MFJ-912). Requires 10-15VDC @ 1.3 amps. Dim: 13"w x 4"h x15"d; 9 lbs. **$649.99**

MFJ ANTENNA TUNERS

902

989D

993B
(front)/(back)

991B/994B

All MFJ products come with a *No Matter What*™ One-year Limited Warranty.
Not including kits, books or software.

MFJ...
the World Leader in Amateur Radio Accessories

902 Tiny Travel Tuner – Only 4.5"w x 2.25"h x 3"d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter. **$99.99**

945E Mobile Tuner – Covers 1.8–30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 & 5/30W ranges. Dim: 8"w x 2"h x 6"d. **$119.99**

941E Versa Tuner II – Covers 1.8–30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625"w x 2.875"h x 7"d. **$129.99**

934 Antenna Tuner/Artificial Ground – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8–30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625"w x 3.5"h x 7"d. **$199.99**

948 – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter. **$149.99**

949E Deluxe Versa Tuner II – Same power, tuning and switching capability as the 941E plus 6M with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune*™ allows off-air tune-up into a built-in dummy load. Dim: 10.625"w x 2.875"h x 7"d. **$169.99**

969 Deluxe Versa Tuner II – Covers 160–6M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune*™ allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5"w x 3.875"h x 9.5"d..... **$199.99**

962D Versa Tuner III – Covers 1.8–30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.5"w x 3.9"h x 15"d. **$279.99**

986 Differential-T Tuner™ – Covers 1.8–30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75"w x 4.5"h x 15"d. **$319.99**

989D Versa Tuner V – Covers 1.8–30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 10.75"w x 4.5"h x 15"d. **$349.99**

993B IntelliTuner™ 300W Auto Tuner – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operation. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10"w x 2.75"h x 9"d. **$249.99**

991B IntelliTuner™ 150W Auto Tuner – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms..... **$209.99**

994B IntelliTuner™ 600W Auto Tuner – Rated 600W SSB or 300W CW. 10,000 memories. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Low power tuning with any external amp bypassed. **$339.99**

974HB

931

974HB Balanced Line Tuner – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward and reflected power, and SWR. Matching Range: 12–2000 ohms from 1.8–54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80–10 meters with sperate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5"w x 6"h x 8"d. ... **$199.99**

974B Balanced Line Antenna Tuner – Same as 974HB but 3.5–54 MHz (no 1.8 MHz). ... **$179.99**

931 Artificial Ground – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Dim: 7.5"w x 3.5"h x 7"d. **Not for coax fed antennas.** .. **$99.99**

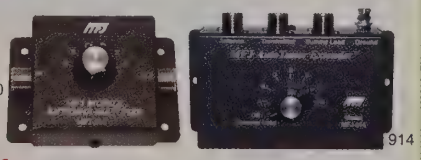
903
906

906 6 Meter Antenna Tuner/Meter – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60 and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8"w x 2.5"h x 3"d. **$99.99**

903 6 Meter Antenna Tuner – Similar to 906. Less meter and bypass switch. **$69.99**

921 144/220 MHz Antenna Tuner/Meter – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300 or 30W. Rated at 200W. Dim: 8"w x 2.5"h x 3"d. **$89.99**

924 440 MHz Antenna Tuner/Meter – Similar to 921 but 440 MHz band only. **$89.99**


910
914

910 Mobile Antenna Matcher – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5"w x 2.5"h x 1.5"d. .. **$29.99**

914 Auto Tuner Extender – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position. **$79.99**

LDG ELECTRONICS

The #1 Line of Autotuners!

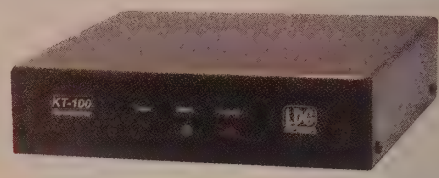
AT-100Pro Automatic Antenna Tuner

This desktop tuner covers all frequencies from 1.8 to 54 MHz (including 6 meters), and will automatically match your antenna in no time. It features a two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100Pro requires just 1W for full operation, but will handle up to 125W (100W on 6 meters). The AT-100Pro includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as they are used. Dim: 7.5"w x 5.5"h x 2.0"d; 1.5 lbs. **$199.99**

AT-1000Pro
HF/6M Automatic Antenna Tuner

Building on the success its flagship AT-1000, LDG Electronics has refined and expanded its 1KW tuner. The new AT-1000Pro has an Auto mode that will automatically start a tuning cycle when the SWR exceeds a preset limit. There are provisions for two antennas and for each antenna there are 2,000 memories that store tuning parameters for almost instantaneous tuning when you transmit on or near a frequency you've used before. *Just key and it tunes!*

- Continuous coverage: 1.8 to 54 MHz (includes 6 meters).
- Power Rating: HF (1.8–30 MHz): 1000W SSB, 750W CW, 500W Digital (RTTY, Packet, etc.); 6 meters: 250W any mode.
- Operates at any power level between 5–1000W peak RF input.
- Relay protection software prevents tuning at greater than 125W and greater than 75W into a 3:1 SWR load.
- Cross-Needle SWR/Wattmeter with selectable 100W/1000W ranges.
- Soft touch buttons for easy operation.
- Tuning time 4 seconds, or under 0.2 seconds when operated near a frequency with stored parameters.
- Tunes just about any antenna between 6 to 1000Ω (approximately 10:1 SWR, 3:1 on 6 meters).
- Supplied with 6 ft. power and ICOM/YAESU interface cables.
- Requires user supplied power, 11–15V DC @ 1A.
- Dim: 9.5"w x 3.5"h x 13"d
- Weight: 5.2 lbs
- **$549.99**



KT-100 Automatic Antenna Tuner for Kenwood

If you have an AT-300 compatible Kenwood radio, you can simply plug the KT-100 into your transceiver with the provided cable; the interface powers the tuner, and the TUNE button on the radio begins a tuning cycle. Provides 2,000 memories for instant recall of the tuning parameters for your favorite band and frequencies. Covers 1.8 to 54 MHz, handles 125W SSB/CW (100W on 6M). Dim: 6.5"w x 1.25"h x 6.5"d; 2 lbs. **$199.99**

AT-897 Automatic Antenna Tuner for FT-897

If you own a Yaesu FT-897 and want a broad range automatic antenna tuner, look no further! The AT-897 mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are transporting your rig by the handle, you can safely set it down without scratching the case. The AT-897 takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier. The FT-897 shown attached to the tuner is not included.
Dim: 1.5"w x 3.25"h x 11.5"d; 2 lbs. **$199.99**

AT-200Pro
Designed for today's 200W Class Transceivers

The AT-200Pro features LDG's new "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250W SSB or CW on 1.8 to 30 MHz and 100W on 54 MHz (6 meters).

Rugged and easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status. All cables included. Dim: 8.5"w x 2.0"h x 6"d; 2 lbs. **$229.99**

IT-100 100W Tuner for ICOMs

Designed to work with IC-7000, IC-706, IC-703, IC-718, IC-746, IC-756 and any ICOM radio that is compatible with the ICOM AH-4 tuner. Covers 1.8 to 54 MHz continuous, including MARS. Rated 0.1 to 125W SSB, CW and Digital modes (100W on 6 meters). Front panel pushbutton with LED status indicators selects manual or automatic tuning that will match up to 10:1 SWR (3:1 on 6M). You can control the IT-100 and its 2000 memories from either its own button or the Tune button on the ICOM rigs. Uses latching relays for ultra-low power consumption. Powers from your radio and includes interface cable and a coax jumper cable. Dim: 6.5"w x 1.5"h x 6.5"d; 1.5 lbs. **$179.99**

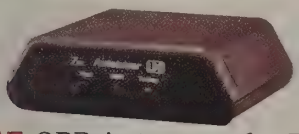
LDG Autotuners include All Cables Ready to Go!

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Accessories

YT-100 100W Tuner for Yaesu

An included CAT cable interfaces with your FT857, FT897 and FT-100 (including all D models). Covers 1.8–54 MHz and MARS. Handles 1 to 100W SSB/CW & Digital. Tunes 4 to 800Ω (16 to 150Ω on 6M). SO-239 in/out connectors. 2000 memories for quick tuning. No extra power cables are needed. Just press the tune button on the tuner and everything else happens automatically – the mode is set to carrier and the RF power is reduced, a tune cycle runs and the radio is returned to the original settings. Dim: 7.0"w x 7.0"d x 1.5"h; 20 oz.. **$199.99**



Z-817 QRP Autotuner for FT-817

Provided cable interfaces unit to the CAT port (ACC) on the 817. Covers 1.8–54 MHz and MARS. Handles 0.1 to 20W SSB/CW & Digital. Quick tuning from 2000 memories (200 with other radios). One button push will switch the 817 to PKT mode, transmit a carrier, tune the tuner, then restore the radio to the previous mode. Works similar with other QRP radios. Just transmit a carrier and press the tune button on the tuner. Zero stand by power drain, uses four "AA" batteries that last about a year. Dim: 1.7"h x 4.7"w x 5.1"d; 9.3 oz. **$129.99**

Z-11Pro

Everything needed in a small, portable, battery operated tuner. It handles 0.1 to 125 watts (100W on 6 meters), ideal for both QRP and 100W transceivers from 160 to 6 meters. With 8,000 memories in LDG's exclusive "3-D Memory" array, the Z-11Pro uses LDG's state-of-the-art processor-controlled switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match long wires or antennas fed with ladder-line. Dim: 5"w x 7.7"h x 1.5"h; 1.5 lbs..... **$179.99**

Z-100PLUS

A small, lightweight package, perfect for portable or in the shack. Uses latching relays for ultra-low consumption – 6 "AA" batteries provide power for a year. Rated 0.1 to 125W SSB/CW/Digital 1.8 to 54 MHz (100W on 6 meters). Tunes 6 to 800Ω (16 to 150 on 6M). Frequency and parameters store in up to 2000 memories to tune in just 0.1 seconds; full tune in about 6 seconds. Includes Icom and Yaesu 857/897 interface cables and coax jumper.
Dim: 5.5"w x 1.5"h x 5.25"d; 16 oz. **$159.99**

FT-METER

Multi-function Metering Capability for Yaesu's FT-857(D) & FT-897(D)

Features a lush, highly readable 2.5 inch meter face with calibrated scales for Signal strength and Discriminator reading on receive, and Power output, SWR, Modulation, ALC action and supply voltage on transmit. LED back-illuminated in cool, high-visibility blue, easily visible from anywhere on your desk or dash. For illumination it requires an external 12V DC source. Rear On/Off switch for the light and calibration and brightness adjustments. Fully assembled and ready to plug into the radio. Dim: 3.6"w x 3"h x 2.6"d; 0.5 lbs..... **$49.99**

FTL-METER

Multi-Function Meter for Yaesu's FT-857(D) & FT-897(D)

All features and function of the FT-Meter above, but with a larger highly readable 4.5 inch meter. Dim: 4.5"w x 4.0"d x 4.5"h; 1 lb.....**$79.99**

M-7700

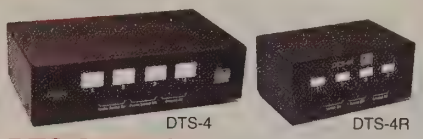
Multi-Function Meter for Icom's IC-7700

Large 4.5 in. meter display S-meter on receive or power out, SWR, ALC level or supply voltages all selectable from the rig's setup menu. The M-7700 and the radio's virtual meter can work together like displaying SWR on the IC-7700 meter and power output on the M-7700. The meter uses no power but the blue LED backlighting requires 12V @ 250mA. Calibration and brightness controls on the back. Dim: 4.0"w x 4.0"d x 5.7"h; 1 lb **$79.99**

RBA Baluns

Install at the coaxial output of your LDG (or other) tuner or transceiver to allow use of longwires and antennas fed with ladder line. A choice of a 4:1 impedance transformation or 52Ω input/output. Both cover 1.8–30 MHz and handle up to 200W continuously. Can be easily waterproofed for outdoor use. Dim: 5"l x 1.25"h x 2.5"w; 6 oz.

RBA-1:1 1:1 200W current balun..... **$30.99**
RBA-4:1 4:1 200W voltage balun..... **$30.99**



DTS-SERIES Antenna Switches

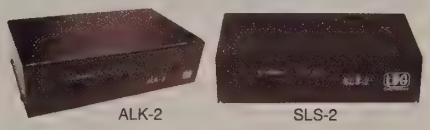
Eliminate that tangled mess of coax and pigtails in your shack. Never worry about whether you set the ground switch on your antenna before you left your shack. With the press of a button these LDG antenna switches can instantly switch your rig between 4 to 6 antennas with a safety feature that prevents "hot switching." When you shut your rig down antennas are automatically grounded for equipment protection. With the optional remote control you locate the DTS switch anywhere indoors and operate it right from your desk. They cover 1.8–54 MHz and handle up to 1500W on HF and 250W on 6 meters. Useable with any coax-fed antenna. Requires 11-15VDC. Dim: 7.5"w x 2.5"h x 4.5"d; 1 lb.

DTS-4 4-position Antenna Switch..... **$79.99**
DTS-4R Remote control for DTS-4..... **$39.99**

DTS-6 6-position Antenna Switch,
Dim: 9.5"w x 2.5"h x 5"d; 1 lb..... **$99.99**

RCA-14 Breakout Box

Simply plug the RCA-14 into you radio's accessory jacks, and all your ports are right there at your fingertips. Plug and play, includes 5 interface cables (DIN-13, mini DIN-6, mini DIN-8 & RCA) for popular Icom, Yaesu, Kenwood and Tentec transceivers. Dim: 6.5"w x 1.5"h x 3.5"d; 1 lb. **$59.99**



Misc. Switches

ALK-2 Audio/Linear/Key Switch – Pushbutton electronically switches a common 1/8" stereo jack and stereo/RCA jacks between two other sets of 1/8" stereo/RCA jacks. LED indicator. 12VDC @ 100mA. Dim: 6.5"w x 1.5"h x 3.5"d; 1 lb...**$49.99**

SLS-2 Microphone Switch – For transceivers using RJ-45 microphone connectors. It has two switched jacks and one common jack. A push button switches one microphone between two radios, or one radio between two microphones. An LED indicates the selection. Requires 12 VDC @ 100 mA. Dim: 6.5"w x 1.5"h x 3.5"d; 1 lb..... **$59.99**

LDG ELECTRONICS

2-Year Transferable Warranty!

A warranty is a promise, a promise of quality and service life. LDG, the leader in the autotuner industry, now offers a standard no-questions-asked 2-Year Transferable Warranty. When something is wrong with an autotuner, switch or meter, LDG will fix it – period.

ICOM ANTENNA TUNERS

AH-4 Automatic Antenna Tuner – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers; just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8 VDC. Dim: 6.7"w x 2.7"h x 9"d. **$259.99**

AT-180 Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function when with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. 13.8 VDC.
Dim: 6.5"w x 2.3"h x 8.9"d; 5.3 lbs. **$369.99**

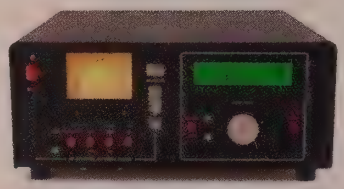
AH-2B Antenna Whip – Covers 7–54 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long. **$389.99**

AMERITRON
LEGAL LIMIT ANTENNA TUNER

ATR-30 – Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160 Meters. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in a T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/Wattmeter. Includes: 3-core choke balun, 6-position antenna switch, 6:1 vernier reduction drives and crank with turns counter. Requires 12VDC or internal 9V battery. Dim: 13.25"w x 5.6"h x 17.5"d. **$559.99**

ATR-20 Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB; slightly less on 160 Meters.
Dim: 13.5"w x 5.5"h x 13.5"d. **$429.99**

PALSTAR
ANTENNA TUNERS



AT-AUTO Automatic Antenna Tuner – Covers 160-10M, rated at 1500W single tone. Continuously variable components using a custom built differential capacitor and ceramic body roller inductor tuned by two high-speed, microprocessor-controlled stepper motors. A 2-line large character display shows the status of the antenna feed, frequency, and up to 250 channels of memory each for coax and balanced feeds. An active Peak/Peak Hold wattmeter allows you to measure and display forward power, reflected power, and SWR simultaneously on a cross-needle 300/3000W meter. Data interface for recent Icom, Kenwood and Yaesu transceivers, allowing the tuner to automatically follow band and frequency changes. For other radios, just key the transmitter for less than a second, and it will tune-up for that frequency automatically.
Dim: 12.5"w x 5.5"h x 16"d, 25 lbs. **$1195.99**

Manual Tuners

AT-1KP

Palstar Quality, Innovative Design

AT-2K

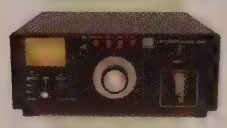
Made in the U.S.A.

AT-4K

Peak & Peak Hold dual Cross-Needle metering

AT-5K

Conservative Ratings


AT-1500DT

Powdercoated Front Panel and Top Cover

BT-1500A

AT-1KP – 160–6M, 1200W PEP. Differential capacitor tuning, balanced and unbalanced output; Roller inductor; 4:1 high power balun; Peak/Peak Hold metering. Dim: 10.5w x 4.5"h x 11"d, 8 lbs. **$469.99**

AT-2K – 160-6M, 2000W PEP. Smaller roller inductor for 6M, relay-switched toroid adds extra inductance for 160M. Lower minimum capacitance & higher maximum capacitance. 6 position antenna switch. Peak/Peak Hold 300/3000W metering; 4:1 balun; Dim: 5"h x 14.5"w x 13.5"d. **$529.99**

AT-4K – 160-10M, 2500W single tone continuous. Unbalanced/balanced output; T-matching network with 1:1 unbalanced-to-balanced transformer in the INPUT; Peak/Peak Hold cross-needle metering. Large value variable capacitor; silver plated roller inductors; Switched antenna inputs. Dim: 15"w x 7"h x 16"d, 20 lbs. ... **$895.99**

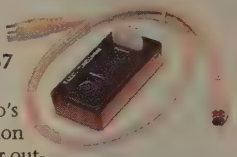
AT-5K – 160-10M, 3500W single tone continuous. Balanced OUTPUT, 5kW balun at the INPUT; Large plate capacitors; 10A roller inductor; Dim: 16"w x 8"h x 18"d, 30 lbs.. **$1195.99**

AT-1500DT – 160-10M, 1500W PEP. Differential tuner. Tunes balanced and unbalanced lines; Ceramic roller inductor; 4:1 balun; Peak/Peak-Hold metering; 6-position antenna switch; Dim: 12.6"w x 4.5"h x 12"d, 12 lbs. **$495.99**

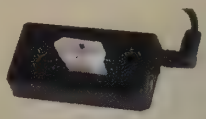
BT-1500A – 160-10M, 1500W PEP. Double-L network balanced tuner. Two tandem roller inductors and dual-section capacitor; Peak/Peak Hold cross-needle metering. **$695.99**

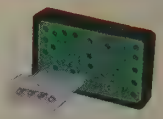
For more detailed info go to: www.palstar.com

The Better RF Company
TUNE CONTROLS



Tune up Control for Yaesu FT-100, FT-450, FT-950, FT-857 and FT-897
Controls the radio's [TUNE] button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., in any mode. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers..... **YAETUNECONT $44.99**


7000 TUNE CONTROL


706 TUNE CONTROL

Tune up Control for IC-706/718 – Plugs into the Molex connector on rear of radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8-10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No switching to AM or RTTY or holding the PTT. Works 160–6M (not 6M with the original IC-706) **706TUNECONT $32.99**

Tune up Control for the IC-7000 – Activates the [TUNE/CALL] button on your IC-7000 to tune an antenna or an external tuner while displaying the SWR on the radio. Senses the voltage on a screwdriver antenna motor for automatic on and off of the tune mode. User selectable tune-up power can be a constant 30W or pulsed at a 50% duty cycle. No modifications. The supplied cable connects to the radio's CI-V jack. It utilizes the CI-V data port and the tuner port for SWR readout, frequency and the radio's preprogrammed sequencing of the tuner port. Last frequency memory..... **7000TUNECONT $54.99**

SCREWDRIVER ANTENNA CONTROL

Screwdriver Antenna Control for IC-7000
Integrates directly with the IC-7000, 7000 Tune Control and any screwdriver antenna. It automatically funds resonance with the push of the [TUNE] button on the IC-7000. Requires no connections or modification to the antenna or radio. Antenna SWR displays on the IC-7000 ..... **7000SCDRCONT $84.99**

PALSTAR
ANTENNA ANALYZER

ZM-30 – An automated microcontrolled SWR antenna analyzer with an 8-bit controller and precision low-power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1-30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for field upgradable software. Battery operation, take it right to the antenna. Durable, powder coated front panel. Dim: 3"w x 4"h x 2"d. **$399.99**

259B

MFJ SWR Analyzers

You can ensure your antenna system is giving you top performance by using an MFJ SWR Analyzer. They're completely portable test stations, featuring a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance/Inductance Meter, and more.

You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make readings and adjustments. MFJ analyzers are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. One reading gives you a complete picture of your antenna, allows quick tuning adjustments on the spot.

- Simple Operation – just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters (259B/269).
- When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.
- Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

Powered by (10) AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries (not included), or 110V with the MFJ-1312D adapter. For installed rechargeables batteries there is a built-in charger circuit that requires external 12VDC or the 1312D adapter. The 249B/259B have an SO-239 antenna connector, the 269 has a Type-N female and is supplied with a Type-N to S0-239 adapter. All metal cabinet. Dim: 6-3/4"h x 4"w x 2"d.

259B SWR Analyzer – Covers 1.8-170 MHz, two-line LCD screen and side-by-side meters..... **$269.99**

249B SWR Analyzer – Same coverage as the MFJ-259B but less analog meters. Reads SWR, true impedance magnitude and frequency (only) on the LCD panel. **$249.99**

269 SWR Analyzer – Has all the features of the 259B, plus it additionally covers 415 to 470 MHz. A CoaxCalculator™ feature calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Read Complex Impedance as series equivalent resistance and reactance (Rs+jXs) or as magnitude (Z) and phase (degrees), parallel equivalent resistance and reactance (Rp+jXp). Measure SWR and loss of coax with any characteristic impedance from 10 to over 600Ω, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450Ω. On the 415 to 470 MHz range, read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency. Two-line LCD screen and side-by-side meters..... **$349.99**

249B 269

MFJ SWR ANALYZER ACCESSORIES

92AA10 731 29C / 39C 66

29C Carrying Case – Cushion and protects your 249B/259B. Tote it, wear it around your waist, over your shoulder, or clip it onto the tower. Back pocket holds dip coils and coax adapters..... **$24.99**

39C Carrying Case – Fits the 269..... **$24.99**

66 Dip Meter Adapter – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz.. **$24.99**

92AA10 10 Pack "AA" NiMH Batteries. $29.99

98 Accessory Pack – Includes 39C case, 66 dip adapter and 1312D AC adapter..... **$59.99**

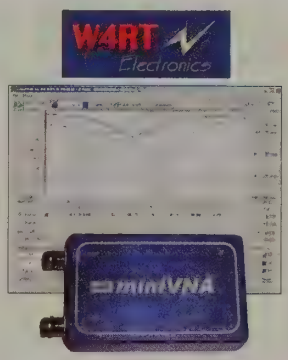
98B Accessory Pack – Includes 10 "AA" NiMH batteries, 39C case, 66 dip coils and AC adapter..... **$93.99**

99 Accessory Pack – Includes 29C case, 66 dip coils and 1312D AC adapter. **$59.99**

99B Accessory Pack – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and AC adapter..... **$93.99**

99C Accessory Pack – Includes 10 "AA" NiMH batteries and 1312D AC adapter. **$45.99**

731 Tunable Measurement Filter – Use with 249B, 259B or 269 for 1.8-30 MHz measurements in the presence of strong RF fields from nearby broadcast stations or other RF sources..... **$99.99**



Software-Defined, PC-based HF/VHF Antenna Analyzer

MINIVNA – Connects to your computer and antenna to display selected parameters on the PC's screen. Quickly analyzes any antenna over a user defined frequency range 0.1 to 180 MHz. PC display shows resonance, the SWR and return loss. Two markers can be placed within the shown frequency range to measure impedance, resistance, phase and other values at those points. Measure cable losses, cable length, transmission, bandwidth, quality of filters and more. Connect via USB 1.1 or 2.0 cable, or select RS-232 to use the miniVNA with a wireless *Bluetooth®* adapter. In this case, both the adapter and the miniVNA must be powered from an external source, and the computer must have a Bluetooth interface. This set-up enables remote measurements, for example, right at the base of an antenna. Software runs on Windows™ or Linux™ OS. BNC connectors. Dim: 3.5"h x 3.3"w x 1"d... **$399.99**

TIMEWAVE TECHNOLOGY INC.

AntennaSmith™

Antenna Impedance Analyzer

- **Full Color TFT LCD Graphic Display**
- **Covers 0.2 to 55 MHz**
- **SWR • Impedance (Z) • Reactance (r+jx)**
- **Reflection coefficient (ρ,ϑ) • Smith Chart**

Day/Night Always-Visible Display
The transreflective TFT LCD color display is brilliantly visible in direct sunlight.

Full Graphics - Rapid update
Data graph updates every two seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system. Instantly see the effect of a change!

Adjustable Frequency Cursor/Generator
Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph. The Direct Digital Synthesizer makes a great RF signal generator in the Synthesizer mode. Easily calibrate to WWV with 1 Hz frequency resolution.

Rugged and Portable
Extruded aluminum case, (4) AA NiMH batteries for hours of field operation. A 12 VDC power supply/charger is included.

Models in stock at our Milwaukee Location:
TZ-900S with SO-239 connector..... **$899.99**
TZ-900N with Type-N connector. **$899.99**

MFJ

SWR/POWER METERS

864 (bottom) – Three band coverage: 1.8–60 MHz, 144 MHz and 440 MHz. Power Ranges: 30/300W forward and 6/60W reflected. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously on the lighted Cross-Needle meter. Requires 12VDC for meter light. Dim: 7.25"w x 2.5"h x 2.25"d.. **$89.99**

862 (center) – Covers 144, 220 and 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75"w x 2.5"h x 2.25"d..... **$69.99**

860 (top) – Covers 1.8–60 MHz. Ranges: 30/300W forward and 6/60W reflected power. Dim: 4.5"w x 2.25"h x 3"d..... **$59.99**

815C – Simultaneously reads true peak or average power and SWR simultaneously on a 3-inch illuminated Cross-Needle meter. Covers 1.8–30 MHz, has 300/3000W forward and 60/600W reflected power ranges. SO-239 connectors. Requires 12VDC. Dim: 6"w x 3.5"h x 4.5"d. **$99.99**

817C – Same as 815C but for 144, 220 and 440 MHz bands, has 300/30W forward and 60/6W reflected power ranges. **$109.99**

812B (right) – Indicates forward/reflected power on 144/220 MHz bands. Also, SWR 144 to 220 MHz, and field-strength 1 to 220 MHz. Power ranges: 30 & 300W. Dim: 4.5"w x 2.25"h x 3"d. **$39.99**

816 Toroidal Meter – Indicates forward and reflected power from 1.8–30 MHz. Power ranges: 30/300W. Dim: 4.5"w x 2.25"h x 3"d. **$39.99**

844 VHF/UHF SWR/Power Meter (left) – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/Power on 15, 60, and 200W ranges. Great to take along for portable, HT or mobile rigs. Dim: 3.75"w x 3"h x 1.25"d... **$79.99**

868 Giant SWR/ Wattmeter
Measures an awesome 6-1/2 inches diagonally across the meter scale. Easy-to-read with large high contrast numbers. Covers 1.8 to 30 MHz and indicates true Peak or Average forward and reflected power and VSWR on 20, 200, and 2000W ranges. Uses 9V battery, 12V DC or 110V AC with MFJ-1312D adapter. *Power Saver™* circuit turns unit on only when RF power is being measured. Dim: 7"w x 5.5"h x 5"d. **$149.99**

GrandMaster™ Series

Four models with different frequency and power ranges. Easy-to-read 3.25"w x 1.25"h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5"w x 3.125"h x 4.25"d.

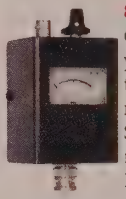
870 (HF range) – 1.6 to 60 MHz.
Power ranges: 30/300/3000W + VSWR..... **$99.99**

872 (HF/VHF range) – 1.8 to 200 MHz
Power ranges: 5/20/200W + VSWR..... **$99.99**

873 (VHF/UHF range) – 125 to 525 MHz.
Power ranges: 5/20/200W + VSWR..... **$129.99**

874 (HF/VHF/UHF range) – 1.8 to 525 MHz.
Power ranges: 5/20/200W + VSWR. **$149.99**

267 1.5KW Dry Dummy with SWR/Wattmeter
The 50Ω dry dummy load works DC to 60 MHz. Handles 100W for 10-min. or 1500W for 10-sec. The large, three-inch lighted Cross Needle meter reads SWR, forward and reflected power simultaneously. Reads PEP or average power on 300/3000W forward and 60/600W reflected power ranges, 1.8-54 MHz. Uses 12VDC for meter lamp. Dim: 4.5"w x 3.5"h x 10.5"d..... **$149.99**



841 144 MHz HT SWR/Wattmeter
Connects directly in line between your HT and antenna. Read SWR up to 6:1 and power output up to 5W. A rear 3-position switch selects SWR, SWR set, or forward power. BNC connectors input/output.
Dim: 2"w x 2.25"h x 1.5"d. .. **$49.99**

MISC. METERS

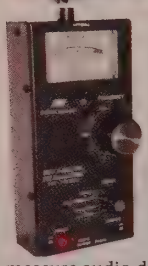
801 Super Compact Field Strength Meter (left) Read Relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Telescopic whip included. Its compact size fits in the palm of your hand. Dim: 2.375"w x 3.625"h x 1"d..... **$29.99**

802 Bipolar Field Strength Meter (right) – Dual whips included. Dim: 2.4"w x 4"h x 1.5"d. **$49.99**

852 Power Line Noise Meter
A sensitive AM receiver, fixed tuned in the 135 MHz range, coupled with a balun isolated 24 inch directional telescopic dipole antenna. Simply hold the unit and rotate while listening via headphones and observing the meter. A clearly defined null accurately pin-points the location of the offending noise. Accommodates a tape recorder for later playback. Uses 9V battery. Dim: 2.8"w x 4"h x 1.5"d.. **$119.99**

805 RFI Detector – Clamp the top mounted transformer over a suspect cable or wire (up to 1/4 in. dia.) to detect RFI causing common-mode currents. Great for checking mobile installations – ferreting out alternator hash, ignition pulses and microprocessor noise on feed lines and power leads. Works VLF to VHF. Uses a 9-Volt battery. Dim: 2.25"w x 4.75"h x 1"d. **$99.99**

854 RF Current Meter – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges, 30mA to 3A; Accurate 1 to 30 MHz; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5"w x 5.5"h x 1.5"d; 11 oz.... **$119.99**



224 2M FM Signal Analyzer™
Covers 143.5-148.5 MHz. Measures signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobes and feedline loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4"w x 2.5"d x 6.75"h. **$169.99**

FREQUENCY COUNTERS

886 Pocket Frequency Counter
Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector; RF Signal Strength LCD bargraph; Four selectable gate times give 0.1-10 Hz resolution in the 300 MHz range and 10-1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75"w x 3.25"h x 1.25"d. **$129.99**

888 Deluxe Frequency Counter
Measures frequency and period. Covers 10 Hz to 3 GHz. with a 10-digit LCD and an ultra-sensitive synchronous detector with 16 section signal strength bargraph. High-speed 300 MHz direct counter with 0.1 Hz resolution and 4 selectable gates. Hi-Z low range; Auto-hold; LED backlight; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd pack. With battery, charger, and telescopic whip. Dim: 2.75"w x 4.25"h x 1.25"d; 9 oz.. **$189.99**

SWR ANALYZERS

207

208

209

207 HF Antenna SWR Analyzer – Obtain a direct readout of antenna's SWR without formulas, etc. Range: 1.75 MHz to 30 MHz. **$99.99**

208 VHF Antenna SWR Analyzer – Obtain direct SWR of antennas from 138-156 MHz..... **$89.99**

207/208 – Dim: 7"h x 2"w x 2"d and uses 9V Battery or 110 VAC with MFJ-1312D

209 SWR Analyzer – A wide range oscillator, a 50Ω RF bridge, and a calibrated bridge unbalance indicator. This combination allows measurement of antenna SWR from 1.8 to 170MHz on the single analog meter, and usable as a signal source. Uses (8) AA cells or 110VAC with MFJ-1312D. Dim: 6.75"h x 4"w x 2.5"d..... **$149.99**

Coaxial Dynamics RF Directional Wattmeters

81000-A RF Directional Wattmeter – Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1–10,000 watts full scale, and from 0.45 to 2300 MHz.

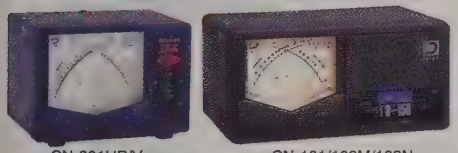
Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order)..... **$289.99**

83000-A RF Peak Reading Wattmeter – Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery (included) is required for peak reading mode..... **$413.99**

See Page 5 in the Price Guide for Plug-in Elements that also work in BIRD meters

DAIWA Cross Needle SWR/ Power Meters



CN-101 – Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6"w x 3"h x 3.9"d; 1.5 lbs. **$99.99**

CN-103M – Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP). **$99.99**

CN-103N – CN-103M with N connectors. **$109.99**

Professional Series

The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the Daiwa line. Calibrated in .5W increments with 5W SWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6"w x 4"h x 4.5"d; 2.2 lbs.

CN-801HP – 1.8-200 MHz, 20/200/2kW. **$159.99**

CN-801V – 140-525 MHz, 20/200W..... **$154.99**

CN-801SII – 900-2500 MHz, 2/20W/200mW, type-N.... **$269.99**

DIAMOND ANTENNA

SWR/Power Meters

(left) Five models measure power and SWR with 5–10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). Dim: 6"w x 2.5"h x 4"d; 2 lbs.

SX-100 – 1.6-60 MHz, 30/300/3kW PEP. **$134.99**

SX-200 – 1.8-200 MHz, 5/20/200W PEP.. **$94.99**

SX-400 – 140-525 MHz, 5/20/200W PEP. **$114.99**

SX-600 – Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges..... **$169.99**

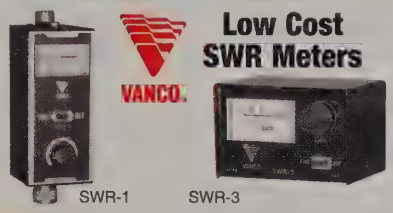
Cross-Needle SWR/Power Meters

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3"w x 3.4"h x 3.7"d; 9 oz.

SX-20C – 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR. **$89.99**

SX-40C – 144-470 MHz (220 MHz with correction factor); 30/300W (3W minimum power)... **$79.99**

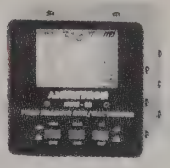
VANCO. Low Cost SWR Meters



SWR-1 SWR/Field Strength – Range: 3.5-150 MHz; Z: 50-52Ω; SWR: 1:1–3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5 in. RF pick-up antenna. Dim: 6"h x 2"w x 2.9"d; 14 oz..... **$29.99**

SWR-3 SWR Meter – Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1–3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 2.5"h x 3.5"w x 3"d; 6 oz.. **$19.99**

AMERITRON



AWM-30 SWR/Wattmeter Range: 1.8 to 30 MHz. Reads true-peak or average power, forward and reflected power and SWR on an illuminated three inch Cross-Needle meter with 3000/300 Watt ranges. Remote sensor with cable. Battery saver turns unit off with no RF applied. Uses 12 VDC or 9V battery. Dim: 4.5"w x 4.5"h x 5.5"d..... **$149.99**

AWM-35 – Similar to the AWM-30 but is only 1 5/8" thick. Perfect for mobile installation..... **$159.99**

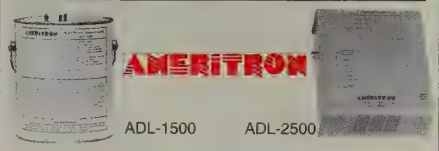
VECTRONICS SWR/POWER METERS

PM-30HF – Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors.
Dim: 5.3"w x 3.5"h x 5.75"d; 1.2 lbs. **$89.99**

PM-30UV – Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors. **$99.99**

DUMMY LOADS

A Must for every hamshack!



ADL-1500 Oil Cooled Dummy Load – Similar to MFJ-250, 1500W up to 30 MHz..... **$74.99**

ADL-2500 Dry Dummy Load – Similar to Vectronics DL-2500 below, 2500W up to 30 MHz, fan cooled. **$209.99**

DIAMOND ANTENNA

DL-30A Small Dummy Load Frequency range: DC to 500MHz. Power: 15W continuous, 100W peak. Dim: 3" long x 1.25" diameter. PL-259 male connector..... **$39.99**

DL-30N Has Type-N male connector. . **$44.99**

MFJ

250 Versaload – A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3"h x 6.6" diameter. Supplied with high-quality oil..... **$69.99**

250X – Same as above, but requires oil.. **$49.99**

Dry Loads – A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

260C HF/VHF Range – Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5"w x 2.5"h x 7"d.... **$39.99**

260CN – Has type "N" connector..... **$49.99**

264 UHF, Wide Range – Good from 1.3 to 650 MHz and usable up to 750 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3"w x 3"h x 9"d..... **$74.99**

264N – Has type "N" connector..... **$84.99**

267 SWR/Wattmeter with Dry Dummy Load – A built-in 100W 50 ohm dummy load with a 3 inch cross-needle meter shows peak and average forward and reflected power and SWR. Usable 1.8–60 MHz. Power: 300/3000W forward, 60/600W reflected Usable 1.8 to 60 MHz. Dim: 4"w x 3.125"h x 10"d..... **$149.99**

VECTRONICS

DL-300M Dry Dummy Load – Power rated at 300W for 15 sec., to 100W for 40 sec. VSWR <1.3:1 at 150 MHz. Dim: 5"h x 2"d x 2.9"h; 8 oz. **$49.99**

DL-650M Dry Dummy Load – Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.3:1 at 500 MHz.. **$79.99**

DL-2500 High-Power Dry Load – A fan cooled heavy-duty load for up to 150 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes. **$199.99**

JSC WIRE & CABLE

Popular Coaxial Cable for Ham Applications

JSC #	Type	Nom. Imped.	Center Conductor	Shield Material	Jacket Material	Dielectric Insulation	Loss/100ft. @100MHz	Velocity Factor
3030	RG-8/U	57Ω	13 AWG (7/21) Bare Copper	97% Bare Copper Braid	Black Vinyl (.405)	Foam Polyethylene (.285)	1.8dB	78%
3060	RG-8X Mini-8	50Ω	16 AWG (19/29) Bare Copper	95% Bare Copper Braid	Black Vinyl (.240)	Foam Polyethelene (.157)	3.6dB	78%
3110	RG-58A/U	50Ω	20 AWG (19/33) Bare Copper	96% Bare Copper Braid	Black Vinyl (.195)	Polyethelene (.116)	4.9dB	66%
3500	9913 Equivalent	50Ω	10 AWG Solid Bare Copper	100% Foil + 88% Tin. copper Braid	Black Vinyl (.405)	Semi-Solid Polyethelene (.285)	1.4dB	84%
3780	RG-213/U	50Ω	13 AWG (7/21) Bare Copper	97% Bare Copper Braid	Black Vinyl Non Contam.	Polyethelene (.285)	2.2dB	66%

Prices are in Price Guide

COAX CABLE

Model	Type	Dia (in.)	Center Conductor	Insulation Type	Shield Coverage	Jacket Type	Imp. Ω	Vel. Factor	Loss/100' 100 MHz
TIMES MICROWAVE SYSTEMS									
LMR-400	RG-8	0.405	Solid BCCAl	Foam polyethylene	100% alum tape plus 95% tinned copper	Black polyethylene	50	85%	1.248 dB
LMR-400-DB Watertight	RG-8	0.405	Solid BCCAl	Foam polyethylene	100% alum tape plus 95% tinned copper	Black polyethylene	50	85%	1.248 dB
LMR-400-UF Ultraflex	RG-8	0.405	10 AWG stranded bare copper	Foam polyethylene	100% alum tape plus 95% tinned copper	Black rubber	50	85%	1.498 dB
BELDEN									
8216	RG-174 Subminiature	0.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50	66%	8.4 dB
8219 & 8219 WHITE	RG-58A/U	0.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC White PVC	53.5	73%	4.5 dB
8259	RG-58A/U	0.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50	66%	5.4 dB
8262	RG-58C/U non-contaminating	0.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black non-contaminating PVC	50	66%	5.4 dB
9913	Low loss semi-flexible RG-8/U	0.405	10 AWG solid bare copper	Semi-solid	100% bonded foil plus 90% tinned copper braid	Black PVC	50	84%	1.3 dB
8241	RG-59/U	0.242	23 AWG sold bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75	66%	3.4 dB
8213	RG-11/U	0.405	AWG 14 solid bare copper	Gas-injected Foam	97% bare copper braid	Black polyethylene	75	84%	1.3 dB
9248	RG-6	0.27	18 AWG solid bare copper	Gas-injected polyethylene	100% alum tape plus 60% tinned copper	Black PVC	75	82%	2 dB

RadioWavz

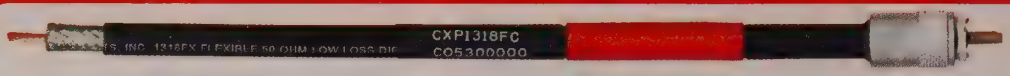
RG-8X COAX JUMPER CABLES

J8X-U1 1.5 ft. RG-8X w/PL-259's..... **$9.99**
J8X-U3 3 ft. RG-8X w/PL-259's..... **11.99**
J8X-U6 6 ft. RG-8X w/PL-259's..... **14.99**
J8X-U12 12 ft. RG-8X w/PL-259's..... **22.99**
J8X-U25 25 ft. RG-8X w/PL-259's..... **29.99**
J8X-U50 50 ft. RG-8X w/PL-259's..... **37.99**
J8X-U75 75 ft. RG-8X w/PL-259's..... **49.99**
J8X-U1X 100 ft. RG-8X w/PL-259's..... **63.99**

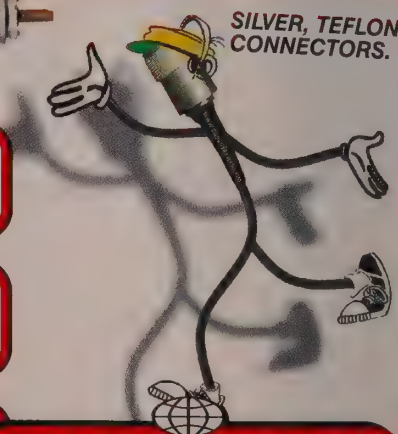
ROTARY COAX CABLE STRIPPERS

AIM

24-7735P – for RG-58, RG-59, RG-62.. **$22.99**
24-7736P – for RG-6, RG-59, 8281..... **22.99**



READY-MADE COAX CABLE ASSEMBLIES



CXP1318FC
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 50MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 50-450MHz.

CXP008C
Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-50MHz.

CXP1318FN
Connector: **"N" Male both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3,
Recommended frequencies: 150MHz & higher.

CXP08XC
Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0
Recommended frequencies: 1-30MHz.

CXP213C
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **1** (97%BC Braid) **V/P 66%**
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2
Recommended frequencies: 1-30MHz(High Power).

BRAIDED GROUND STRAP

Sizes: ..... 1/2" wide
or .....1" wide

CABLE X-PERTS, INC.
Connecting You to the World...

See Pages 4 & 5 in the Price Guide for pricing.

UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.

AMPHENOL
83-1SP – PL-259 silver-plated coaxial connector

CZL
401TS – PL-259; silver plated, Teflon®, gold pin C/O

AMPHENOL
PL-259 Reducers
83-185-RFX – For RG-58
83-168-RFX – RG-59/8X

AMPHENOL
83-878 – UHF single hole bulkhead receptacle

AMPHENOL
83-1R – SO-239 UHF panel receptacle

SHAKESPEARE
PL-259CPG – PL-259; no strip, solderless male connector for RG-8X & RG-58/AU

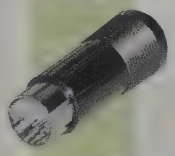
PL-259CPG

PL-258CPG

SHAKESPEARE
PL-258CPG – No strip, solderless splice for RG-8X & RG-58/AU

MICROPHONE AUDIO & DIN CONNECTORS

VANCO
CBC-8P Panel mount 8-pin male



KENWOOD
7-PIN DIN plug
8-PIN DIN plug
13-PIN DIN plug

PHILMORE
61-608B 8-pin female microphone plug

VANCO
CBC-4 4-pin female microphone plug
CBC-5 5-pin female microphone plug
CBC-6 6-pin female microphone plug

HOUSE OF DEALS
AP-115 1/4" metal stereo plug
AP-135 3.5mm stereo mini-phone plug

DALBANI
15-0293 3.5mm monaural phone plug C/O

TYPE-N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.

AMPHENOL
82-202-1006 –Type-N Male connector for 8214, 9913 & 9913F
34025 – Type-N Male connector for RG-58

CABLE X-PERTS
6633S – Two-piece, EZ-install Type-N connector for 9913/8214

AIM
26-8011 – Type-N chassis mount receptacle

AMPHENOL
82-24 – Type-N panel mount receptacle

BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.

AMPHENOL
31-002
BNC Male for RG-58
31-012
BNC Male for RG-59/8X

AIM
CPAD-556M
BNC Dual Female chassis mount

AMPHENOL
31-221
BNC Female chassis mount

COAXIAL ADAPTERS

AMPHENOL
83-1T
UHF T-connector

AIM
27-8140
BNC T-connector

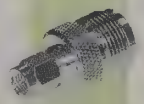
AMPHENOL
83-877 – UHF double male

AMPHENOL
4400 – SO-239 to Type-N male

AIM
26-8015 – SO-239 to Type-N male

AMPHENOL
31-28 – BNC female to PL-259

AIM
27-8120 – BNC female to PL-259



HOUSE OF DEALS
SMA-872 – SO-239 to SMA male

AIM
27-8130 – BNC double male

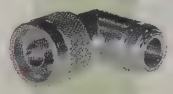
AIM
26-8017 – BNC male to N female

25-7420 – BNC male to SO-239

AMPHENOL
2900 – BNC male to SO-239

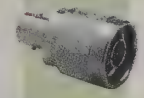
AMPHENOL
83-1AP – UHF right angle

AMPHENOL
82-64 – Type-N right angle

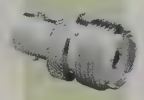


AIM
27-8150 – BNC right angle

AIM
26-8016 – BNC female to Type-N male



AIM
25-7365 – BNC female to SO-239



AIM
29-4140 – SO-239 to mini-PL-259

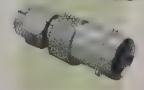
AIM
26-8014 – Type-N female to PL-259

AMPHENOL
83-1J – UHF double female connector

AIM
CPAD-207 – 2 in. SO-239 double female connector

CABLE X-PERTS
UG-3634 – 4 in. SO-239 double female connector
UG-3636 – 6 in. SO-239 double female connector

AIM
26-8010 – Type-N double female connector



AIM
29-3855 – BNC female to SMA male

Prices for items on this page can be found under CONNECTORS on Page 6 in the Price Guide.

COAXIAL ANTENNA SWITCHES

ALPHA DELTA

Made only in the USA. A high quality design that feature a cast housing with a constant impedance micro-strip cavity for outstanding performance through UHF. Choose two & four position, SO-239 & N-Type models or the new desktop version four position with SO-239 or N-Type. See the Price Guide and Alpha Delta page for more information.

DIAMOND ANTENNA

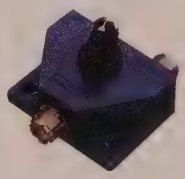
Low Loss, High Isolation Heavy Duty Coaxial Switches

CX-210A 2-position – Frequency Range: DC to 1000 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 2.5"w x 1.75"h x 3.5"d, 15.5 oz..... **$49.99**

CX-210N 2-position – Same as CX-210A, except has Type-N connectors and different ratings. Frequency Range: DC-3000 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz); 150W (1000-3000 MHz)..... **$79.99**

CX-310A 3-position – Frequency Range: DC-800 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 3.3"w x 1.12"h x 3.75"d, 20 oz..... **$89.99**

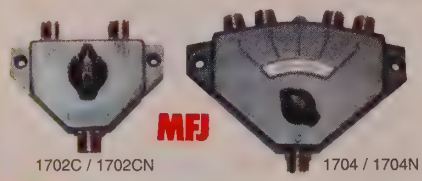
DAIWA industry co. ltd



CS-201 2-Position Coaxial Switch – Heavy die-cast metal construction with Cavity Design, usable up to 600 MHz. <0.12 VSWR, <0.2dB insertion loss, 60dB isolation. Rated 2.5 KW PEP or 1KW CW. Automatically grounds the unused terminal. SO-239 connectors..... **$32.99**

CS-201GII – Same as CS-201 but with type-N connectors and good to 1300 MHz..... **$48.99**

MFJ



1702C 2-Position Antenna Switch – Heavy cavity-type construction, rated to 500 MHz and 2.5KW PEP or 1KW CW. SO-239 connectors, 50-75Ω. <0.2dB loss and >50dB isolation. Switch has a center grounding position and the unused terminal is automatically grounded for surge protection. Dim: 3"w x 2"h x 2"d. **$39.99**

1702CN – Same as 1702C, but with Type-N connectors, good up to 1.1 GHz..... **$44.99**

1704 4-Position Antenna Switch with Lightning Surge Protection – Heavy, cavity-type. SO-239 connectors, 50-75Ω, rated to 500 MHz and 2.5KW PEP, 1KW CW. Center ground position, replaceable gas tube protector. Dim: 6.2"w x 4.2"h x 2"d... **$79.99**

1704N – Same as 1704 but with Type-N connectors, good to 1.1 GHz..... **$84.99**

1701 Six position Antenna Switch – Select 1 to 6 50-75Ω antennas. Rated 2KW PEP or 1KW CW, 1.8-30 MHz. SO-239 connectors, unused terminals are grounded. Dim: 10"w x 3"h x 1.5"d.... **$69.99**

1700C Antenna and Transceiver Switch with Lightning Protection

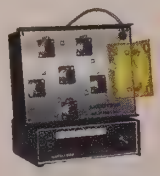
Switch up to six antennas and six radios in any combination. Rated 1.8-30 MHz, 2KW PEP or 1KW CW, 50/75Ω..... **$99.99**

1703 Rig/Antenna RF Safety Switch – Prevents your rig from transmitting into no load. Your rig is always connected to one of two antennas. Connect two rigs and two antennas and switch to other combinations. Range: 1.8-30 MHz; up to 300W SSB/150W CW. Metal cabinet with mounting tabs. Dim: 6.5"w x 2.5"h x 1.5"d. **$29.99**

REMOTE ANTENNA SWITCHES

AMERITRON

RCS-4 – Use just one coaxial feedline, select up to 4 different HF antennas. The weather proof relay box can be remotely mounted outside on a tower, mast, etc. A control box located at the operating position works thru the coaxial cable without the need for a separate control line. Designed with heavy duty 10 Amp contact relays on a fiberglass circuit board rated at 2 KW and 1.8-30 MHz. Dim: (relay box) 5.25"d x 7"w x 3"; (control box) 6"d x 6"w x 2.5"h..... **$149.99**



RCS-8V – Independently or simultaneously select up to 5 different antennas using one coaxial feedline and an 8-wire control cable. Select grounding or floating unused terminals. SO-239 connectors. Rated 5KW to 30 MHz, 1KW to 150 MHz..... **$159.99**

RCS-8VN – Same as RCS-8V but with Type-N female coaxial connectors..... **$169.99**

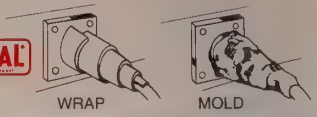
RCS-10 – Select up to 8 HF antennas using one feed line and a single 4-wire control line. Long life, 16 Amp 100 MHz sealed relays will handle over 5 kW into matched loads below 30 MHz. **$179.99**

MFJ

4712 – Select 2 antennas using a a single coax feedline to an outside switch box. Separate control line not needed. Rated 1.8-150 MHz, 1500W and 50-75Ω. Inside control box and weatherproof outside switch box. SO-239 connectors, mounting bracket. 12VDC power supply required, not included. **$79.99**

CONNECTOR PROTECTION

COAX-SEAL



UNV 104 Hand Moldable Plastic for Antenna Component Protection – The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature to resist moisture penetration. Permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non-toxic and non-contaminating roll, 1/2"w x 60"l..... **$3.99**

WATER PROTECTION

Cross Devices

STUF Dielectric Water-proof Connector Filler High purity macroscopic foam dielectrically simulates the coaxial cable core and seals out moisture. Just fill coax connectors and tighten. The filler material hydraulically channels into all voids and points of moisture entry. Non-hardening, easy to remove. No silicone or other additives to harm coax cable material ... (tube) **$5.99**

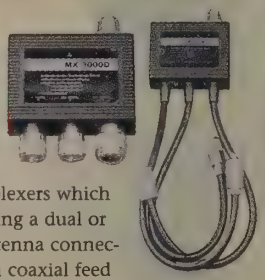
CORROSION PROTECTION

PENETROX™

PENETROX A – A highly conductive grease recommended for use on Aluminum-to-Aluminum and Aluminum-to-Copper connectors, and on bus bars. Assures a high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Simply apply liberally to mating pieces of antenna components, tubing, etc. during assembly. Also acts as an anti-seizing lubricant to provide easy component disassembly ... (4 oz. bottle) **$14.99**

DUPLEXERS/TRIPLEXERS

See Comet on Page 5 Diamond on Page 7 in the Price Guide for a selection of Duplexers and Triplexers which will allow connecting a dual or tri-band radio's antenna connections to a common coaxial feed line and multi-band antenna.



ORDER ON-LINE • BY PHONE!

We also accept Government Credit Cards

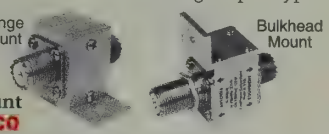
USE YOUR CREDIT CARD

PolyPhaser® CORPORATION

The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a SINGLE, low impedance grounding point within the hamshack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor). Polyphaser CU-SPGP panel (right) recommended.

BROADBAND COAXIAL PROTECTORS

Uses special hermetically-sealed gas tubes and other components to protect station equipment from surge voltages and currents that form differentially on coaxial transmission lines. Wide frequency range, low loss and DC blocked for maximum protection Aluminum enclosure. Silver-center, TFE UHF connector or silver shell and gold pin Type-N.



Flange Mount

IS-50UX-C0
Range: 1.5–400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector..... **$66.99**

IS-50UX-C1
Range: 50–700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector..... **$66.99**

IS-50NX-C2
Range: 125–1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N. .. **$62.99**

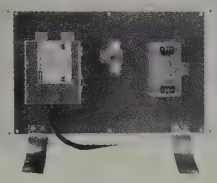
Bulkhead Mount

IS-B50LU-C0
Range: 1.5–400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector..... **$69.99**

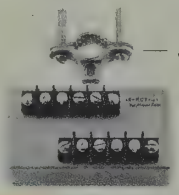
IS-B50LU-C1
Range: 50–700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector..... **$69.99**

IS-B50LN-C2
Range: 125–1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N. .. **$69.99**

GROUNDING PANEL



CU-SPGP – A heavy (0.062") copper plate mounted on 1/2" plywood. Use for mounting surge protectors and establishing the very important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper, 18" x 12" sandwich bars. Standard 16" on-center mounting... **$179.99**



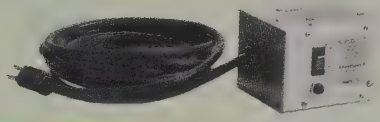
ROTOR CONTROL PROTECTOR

IS-RCT – Protects rotor controllers (up to 8-wires) from the damages relating to lightning events. Each terminal has an individual gas tube inside the watertight aluminum box. Shown with optional J-1 Transition Clamp installed on the top..... **$129.99**

J-1 Transition Clamp – For IS-RCT..... **$14.99**

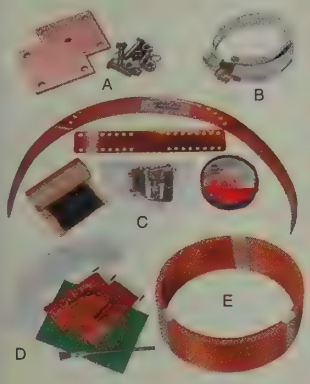
POWER LINE EXTENSION PROTECTOR

In-line, multi-stage surge protector provides multi-strike protection, filtering and proper grounding for a 120V AC circuit. Has 2 grounded outlets, power on/off rocker switch, and circuit breaker. All aluminum grounded enclosure. Dim: 4.75" wide.



PLDO-120US20A – 20A, 6 ft. cord..... **$199.99**

ACCESSORIES



1C-112S Clamp Bond (A) – Bonds #6 – #1 AWG cable to 1-1/2" Copper Strap..... **$33.99**

58R-112S Clamp Bond (A) – Bonds 1-1/2" copper strap to a 5/8" Ground Rod. Looks same as 1S-112S except fits 5/8" rod..... **$32.99**

TK-2 Ground Clamp (B) – Attaches Copper Strap to Galvanized Tower Legs; 1-1/4" to 2-1/4" diameter (Rohn 25, 45, 65, etc.). **$8.99**

UNIKIT2CC Cable Grounding kit (C) – Attaches coaxial cable (1/4" to 2-1/8" dia.) to a copper or brass grounding point. Copper strap 24 in. long. Hardware, coax sealer and tape included... **$49.99**

CCK Copper Cleaning Kit (D) – Easily clean copper and weather seal connections from moisture and corrosion. Includes surface cleaning pad, copper joint compound, brush & finger cleaning packets. **$28.99**

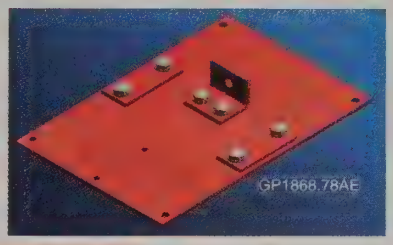
LOW INDUCTANCE COPPER STRAP

(E) Larger surface area and lower inductance is a big advantage over wire for RF grounding and lightning protection. #26 AWG, available in 1-1/2 or 3 in. widths and 25, 50 or 100 ft. rolls... **See Price Guide**

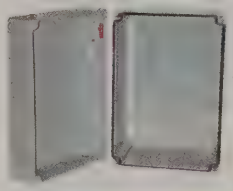
GROUNDING ACCESSORIES

GBIS18114AE 1/8" Copper Entrance Ground Bar Kit – Installs at shack entrance, making a short connection to a ground system. Holds up to five PolyPhaser lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Accepts grounding wires from 1/0 stranded to #6 solid..... **$39.99**

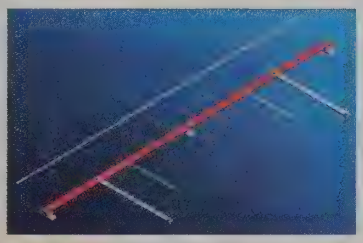
GEL3AE – Pkg. of 5 HD terminal lugs. ... **$26.99**



GP1868.78AE 1/8" Copper Single Point Ground Panel Kit – Provides grounding for two transceiver lines and rotor control cable. Installs at tower base or on outside wall. Fits inside a NEMA-4X style box for weather proofing. Tapped holes, sandwich plates and hardware provided... **$76.99**



GBX976AE
NEMA 4X
Waterproof Enclosure
Accepts GP1868.78AE ground panel, above
$127.99



GBIS18148AE 1/8" Copper Station Ground Bar Kit – Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4 in. strap and lugs for added assemblies..... **$83.99**

Connecting you to the World
CABLE XPERTS

FLAT BRAIDED GROUND STRAP

Flat, flexible, and tinned for easy soldering. Use the 1 in. wide size for connecting tower legs or antennas to ground rods or to a central grounding point. From the central point, use separate lengths of 1/2 in. wide to connect to each piece of station equipment for best lighting protection.

2332 – 1/2 in. (10 ga.), rated at 53A .... per ft. **89¢**
2332 100 – 100 ft. roll of above..... **$70.99**
235 – 1 in. (7 ga.), rated at 85A ..... per ft. **$1.44**
235 100 – 100 ft. roll of above..... **$124.99**

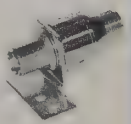
Kleinhuis ISOLATED GROUNDING BAR

1309 Isolated Ground Bar – Provides additional panel, sub or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Nickel-plated, copper clamping rail, locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5"w x 1.75"h..... **$14.99**

MFJ

270 Lightning Surge Protector – An ultra-fast gas discharge tube safely shunts impulse current up to 5,000 Amps peak to an independent ground. Rated 400W PEP, up to 1000 MHz..... **$29.99**

AES LIGHTNING PROTECTORS



Replaceable Gas-tube protection isolates damaging surges. Bulk head or flange mounting with included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5"l x 1" dia.

SP-U – UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss..... **$59.99**
SP-N – Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss. **$59.99**
AP – Replacement Gas-tube protector..... **$9.99**

LOW-PASS & HIGH-PASS FILTERS

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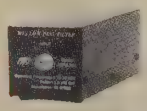

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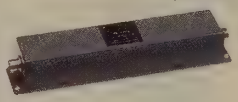

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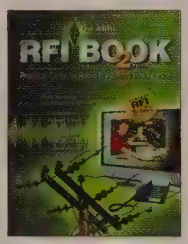

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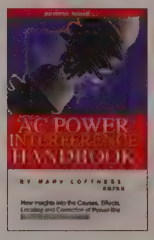

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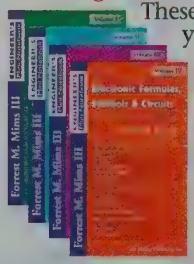

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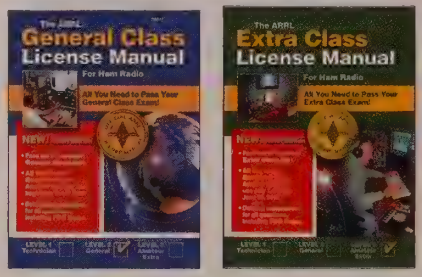

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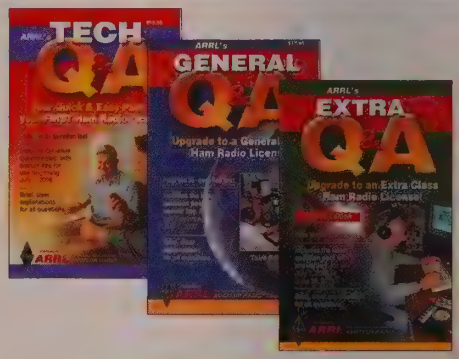

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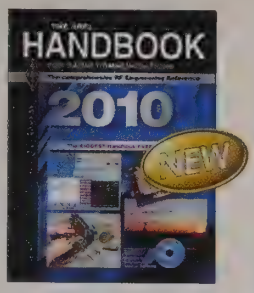

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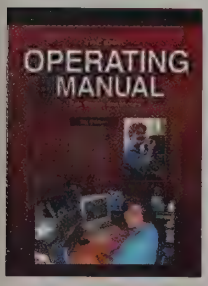

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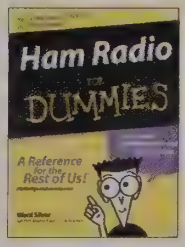

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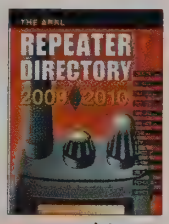

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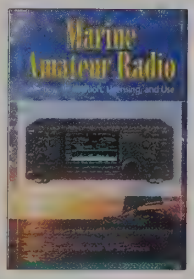

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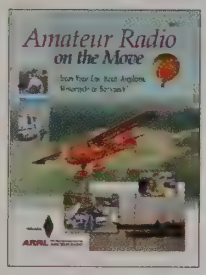

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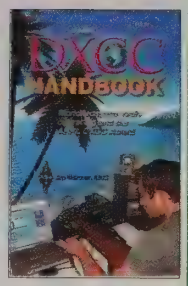

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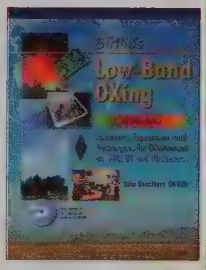

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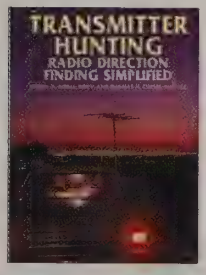

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The Art and Science of QRP, by W3OSS. Explore the excitement of low power radio operating: equipment and station accessories, antennas, operating strategies, emergency communication, surplus military equipment, and more.
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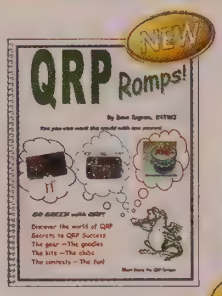
QRP Romps by Dave Ingram, W4TWJ



Work the world with low power (QRP). A complete guide to low power communications (1 to 5 watts). It includes everything you need to know from gearing up, to building kits, homebrewing rigs, antennas. Secrets to QRP success. The clubs. The contests. The fun!
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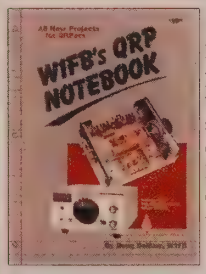
W1FB's QRP Notebook



Packed with construction projects for QRP transmitters, receivers and accessories. Gain understanding of circuits. Experience first hand the thrill of making contacts using equipment that you've built.
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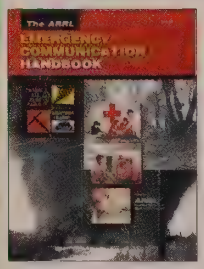
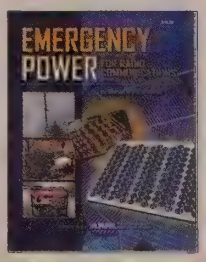
EMERGENCY COMMUNICATIONS

The ARRL Emergency Communication Handbook



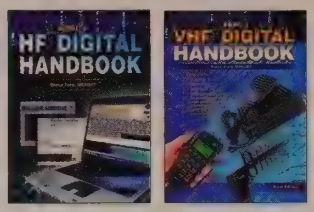
Intended for all hams that volunteer their skills in public service applications (or who are interested in doing so). Includes details on basic emergency communication skills, message handling, and more. Understand what to expect and what to take along. This book covers the Amateur Radio Emergency Communications Course (Level 1) manual but adds additional material ..... **ARR 9388 $19.95**

Emergency Power for Radio Communications



Explore electric power generation from charging batteries to keeping the lights on. Covers Solar Power Controllers, Generators (Gas, Wind and Water), Inverters, Instruments & Safety. **ARR 9531 $19.95**

DIGITAL MODES OPERATION



HF Digital Handbook, 4th Ed.

RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hellschreiber, MFSK16 & PSK31. All it takes is your computer, an SSB transceiver and an HF modem, multimode processor or PC sound card. Learn how to assemble your own HF digital station, send/receive internet email via HF, and more! **ARR 1034 $19.95**

VHF Digital Handbook

Setup and operate your equipment and software, and make effective use of your digital station. Packet Radio, APRS, D-Star, digital applications in public service and emergency, more.. **ARR 1220 $19.95**

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Explore GPS: its history, how it works, and navigating with a GPS receiver. Also learn how Amateur Radio operators have made use of GPS technology for direction finding and public service
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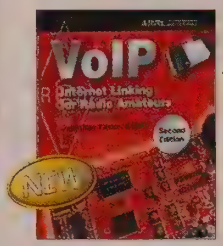
VoIP: Internet Linking for Radio Amateurs by Jonathan Taylor, K1RFD, 2nd Edition



– A complete guide to several of the most widely-used VoIP systems used by hams with particular attention to EchoLink and the Internet Radio Linking Project (IRLP). Designed for beginners who need information on how to get started, set-up, and use these systems. For the more advanced, it provides plenty of technical "meat" for those who want to dig deeper into VoIP applications and discover how they actually work.
Contents: Connecting the World, Using a VoIP Link, Conference Servers, Reflectors and Nets, Other Linking Systems, Setting Up Your Own Node & Digital Audio and the Internet. **ARR 1431 $21.95**

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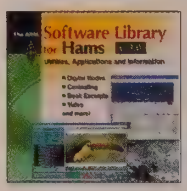

Contains software for a wide variety of ham radio applications and a selection of articles from QST magazines.
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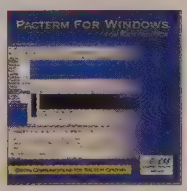

Software for Kantronics, Timewave/AEA TNCs. Operate the Digital Modes: PSK-31, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF and HF packet. Works with single or dual port TNCs or your computer's soundcard with an interface. Requires AEA/Timewave Host Mode or Kantronics TNC Hostmost for TNC interface. For Soundcard Only mode use a soundcard interface like a RIGblaster or MFJ-1275/1279. Built-in logging.
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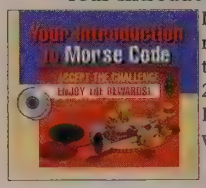
Your Introduction to Morse Code



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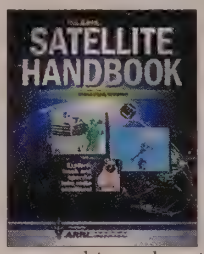
Satellite Handbook



The thrill of satellite communications is within your reach with understandable descriptions, illustrations and the tools you need to participate. It's designed to give a broad introduction to the subject, while providing the practical fundamentals you need to explore, track and operate ham radio satellites on your own. Topics: a brief history of Amateur Radio satellites; Orbits and Tracking; Your satellite ground station; Satellite operating; Satellite projects, plus understanding orbits and subsystems. ..... **ARR 9857 $24.95**

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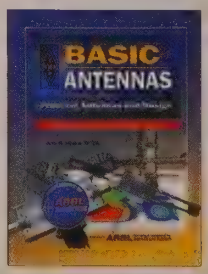
Track 100s of satellites in dozens of windows. Multi-tasking; Unlimited open satellite windows; Voice alarms when satellite window becomes visible; 5 map projections; 3D antenna radiation diagrams can be displayed; Online help; The Satellite Encyclopedia. Requires Windows® OS, 286 or better processor, 4MB RAM,15MB disk space, sound card ..... **LOG LOGSATPRO $69.99**

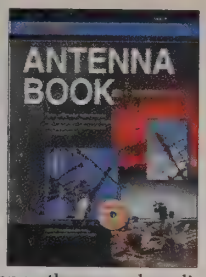
ANTENNAS

Basic Antennas



Basic concepts, practical designs and details of easy-to-build antennas. Includes: Dipoles, Transmission Lines, Two Element Arrays, Wideband, Multibanders, Loops, Reflector Antennas, HF and VHF, Microwave, Vehicles, Measurements & More.. **ARR 9994 $29.95**

ANTENNAS



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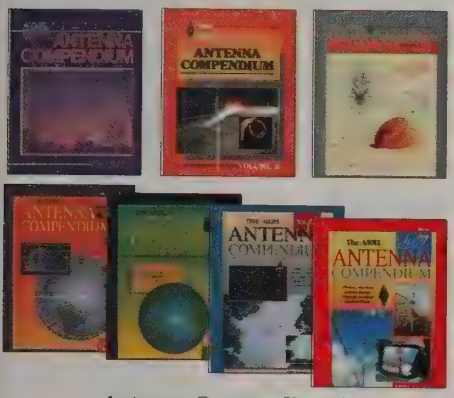

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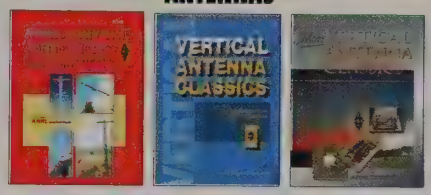
ANTENNAS



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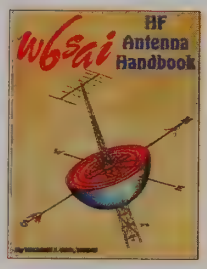

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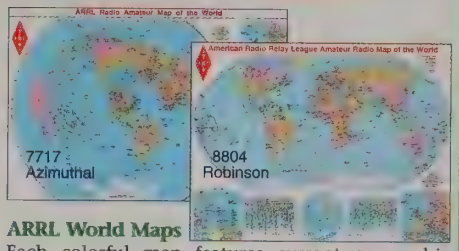
This large, colorful wall map features current geographic detail and labels, grid squares, call sign prefixes, boundaries and more. Great for all operators! Essential for contesters, WAS, VHF/UHF Century Club, and other award seekers. Also makes a great hurricane tracking map. Dim: 27 x 39 in., durable plastic laminated ..... **ARR 8977 $15.00**



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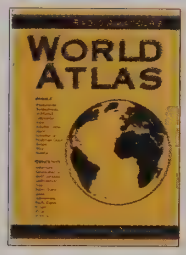
Each colorful map features current geographic detail and world-wide call sign prefixes. **Azimuthal Projection** is centered on the central USA and is useful for antenna beam headings. Dim: 27 x 39 in., laminated. **Robinson Projection** is the popularized classroom-style projection map. Dim: 26 x 34.5 in., laminated... **ARR 7717 / ARR 8804** each **$15.00**



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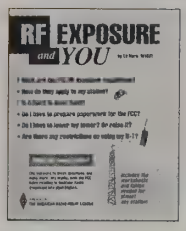

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HISTORY / ARCHIVES

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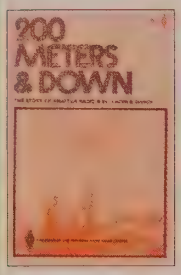

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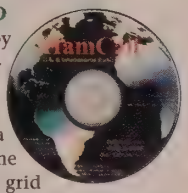

Over 1.5 million listings by name, address, county, country and license class. Displays license issue date, expiration, previous call and class, area code, e-mail, URL, county, time zone, latitude/longitude, grid square, beam heading and long/short path distance. PC DOS and all Windows version 95 to Vista compatible; Extensive international listings; Label printing; 4,000+ photos and QSL cards; Interfaces with most logging programs .. **BUC HAMCALL $49.99**

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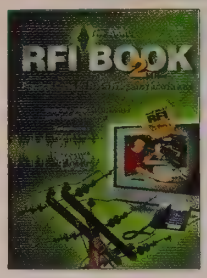

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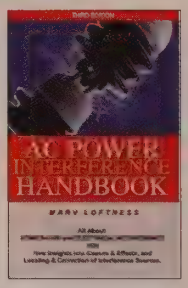

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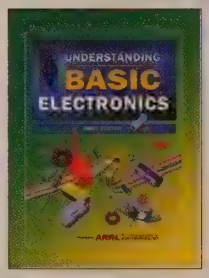

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For beginners and those who want to brush up on electronic principles. Clear, simple explanations and loaded with illustrations.

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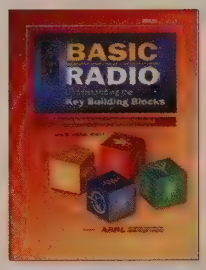
Basic Radio



A comprehensive introduction to radio – what it does, and how it does it. The key building blocks of radio: receivers, transmitters, antennas, build-it-yourself projects to turn theory into practice and helping reinforce important subjects.

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The functional methods of frequency design using mathematics as needed to develop intuition for RF circuits and systems. Many simple circuit models prepare you to actually design HF, VHF and UHF equipment.

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GENERAL / MISC INFORMATION

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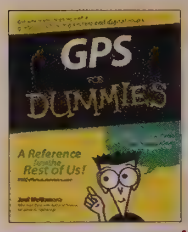

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Cobra CB RADIOS

19DX IV **Compact 40 channel Mobile CB Radio** New compact design; Full function LCD display; Instant channel 9/19; RF gain/squelch control; Combination S/RF meter; Channel Indicator; TX indicator; CB/PA switch; Mobile bracket.
Dim: 4.5"w x 1.75"h x 7.25"d; 2.1 lbs..... **$49.99**

148GTL **40 channel AM/SSB CB Radio** – Full featured, 4 full Watts (AM) and 12W (SSB) RF power. Dual conversion AM receive; Adjustable Dynamike; Illuminated S/RF/SWR meter; Switchable ANL/NB; PA capability; three-position tone switch; 2-color RX/TX indicator; Digital LED readout; PA. Dim: 2.3"h x 7.8"w x 9.2"d; 5 lbs. **$149.99**

25LTD **AM Mobile CB Radio** – 40 channels; 4W RF output; Adjustable Dynamike boost; Instant channel 9; RF gain control; Switchable noise blanker; Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile controls. Dim: 8.6"d x 6.3"w x 2.2"h; 4 lbs. **$89.99**

29LTD **AM Mobile CB Radio** – Same look and basic features as the 25LTD but includes: Delta tune; Switchable ANL/Noise blanker; CB/PA switch; Antenna warning LED indicators; S/RF/SWR meter. Dim: 8.6"d x 6.2"w x 2.2"h; 4 lbs. **$99.99**

HH-ROAD TRIP **40 Channel CB Handheld** – Keep in vehicle for emergencies, inter-vehicle communications and to receive the latest weather information. **SoundTracker®** system cuts noise up to 90% and 4W of power gives up to 4 miles range. High/low power switch. Operates on 9 "AA" alkaline or NiCads or from vehicle battery with the included DC cord and plug. Includes magnet mount mobile antenna.
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25WXNW ST **AM Mobile CB Radio** – Same as 25LTD but with NightWatch™ & Weather. **$109.99**

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HGM-77 **Noise Cancelling Microphone** – Designed for CB users who want to step up from their stock microphone. Features 9' High-Flex™ cord, Wire mesh grille, Heavy-duty ABS shell and 4-pin connector. **$24.99**

RECOMMENDED CB ANTENNAS

COBRA

HGA-1000 – Base loaded magnet mount mobile antenna with coax and connector..... **$29.99**

HUSTLER

HQT – A 55 in. top loaded whip with Mirror Mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome with a white coil. **$33.99**

HQ-27M – A 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil..... **$42.99**

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1C-11 – 42 in. base loaded trunk mount white antenna (**1C-11B** is black)..... each **$19.99**

LARSEN

NMO-27C – Base loaded mobile, less mt. **$45.99**

NMO-27B – Same but black. **$49.99**

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NMO-MMR – Magnet mount for NMO-27C. Comes w/12 ft. coax & PL-259..... **$34.99**

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K40

K30 – 35" whip base loaded 4" magnet mount with 15' RG-58 coax & PL-259 connector. **$29.99**

K40 – 57.25" whip base loaded trunk or roof mount w/18' RG-58 coax & PL-259 conn. **$69.99**

M40 – Magnet mount for K40 antenna. **$24.99**

W40 – Black weather cap for K40 ant... **$2.99**

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SF-400 – 4' Black fiberglass whip..... **$23.99**

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uniden CB RADIOS

PC-68XL **40-Channel CB Radio** – Front microphone jack; Backlit controls; S/RF meter; Channel indicator; Dynamic squelch control; TX/RX indicator; Instant channel 9; RF and microphone gain; PA mode. Dim: 7.6"w x 8.9"d x 2.6"h; 3 lbs. ® **$54.99**

PC-68LTW – Same basic features as the PC68XL but with NOAA weather and alert. ..... ® **$59.99**

PC-78XL **40 Channel AM Mobile** – PLL synthesized; Instant channel 9; Dynamic Squelch Control; Microphone and RF gain; Delta tune; Noise blanker; Automatic noise limiter; PA/CB switch; Dimmer control; TX/RX LEDs; Antenna warning LED. Dim: 7.25"w x 8.63"d x 2.38"h; 4 lbs. ... ® **$74.99**

PC-78LTW – Same basic features as the PC78XL but with NOAA weather and alert..... ® **$79.99**

PC-78 ELITE **40-Channel CB with Ergonomic Pistol Grip Microphone** – Combines CB and a 7 channel Weather Radio with alert. Enhanced night vision display; Instant Channel 9; S/RF/SWR meter; RF and microphone gain; Delta tune. Switches for: S/RF/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and dynamic squelch control.
Dim: 7.6"w x 8.9"d x 2.6"h; 4 lbs. 3 oz. ® **$89.99**

PC-68 ELITE **40-Channel CB** – Same looks and features as PC-78 Elite but no Delta tune and SWR. Dim: 6.2"w x 5.4"d x 2.1"h; 3 lbs. 11 oz. ® **$69.99**

PRO-510XL **Compact 40 Channel AM Mobile** Incorporates state-of-the-art microelectronics into a sophisticated Euro-styled 2-way CB unit. Front mounted microphone, ANL Switch, S/RF LED meter. Dim: 4.5"w x 1.4"h x 7.5"d; 3 lbs.... **$39.99**

PRO-520XL **Compact 40 Channel AM Mobile** Looks like 510XL. Instant channel 9 access; 4-segment S/RF meter; TX LED; LED channel indicator; RF gain; PA switch; Automatic noise limiter.
Dim: 4.5"w x 6.8"d x 1.38"d; 1 lbs. 10 oz. . **$54.99**

PRO-538W **40 Channel AM Mobile** – Includes 3 weather channels. RF gain control; PA/CB switch; Instant channel 19; TX/RX indicator; Front speaker. Dim: 6.8"h x 2"w x 8.3"d; 2.6 lbs..... **$59.99**

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MARINE RADIOS

ATLANTIS-250 Handheld 2-Way VHF Marine Radio All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability. **$89.99**

VOYAGER Ultra Compact VHF Handheld Marine Radio – All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus™; Channel 16/9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Flexible antenna. Meets JIS7 waterproof specifications. Comes with rechargeable Li-ion battery; AC/DC adapter and charging cradle. Dim: 3.8"h x 2.4"w x 1.3"d; 8.8 oz.. **$149.99**

SOLARA-DSC 25W VHF Marine Radio – Full-featured, now includes DSC. All USA/ international channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector..... **$89.99**

OCEANUS-DSC Full Featured VHF Marine Radio – Ultra-compact, rugged construction saves space, allows for convenient mounting, and withstands the harshest conditions. All USA/international/Canadian marine channels, N.O.A.A. weather with scan and alert. Triple Watch Plus™ – monitor emergency channel 16 and 9, another user selectable channel plus weather alert; Quik Command™ one-touch channel 16/9 key on the durable, rubber grip microphone; Backlit keypad; Memory scan; 1 or 25W transmit; LCD and dimmer; External speaker jack; One switch PA operation..... **$129.99**

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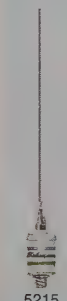
MARINE ANTENNAS

396-1

420

5206-C



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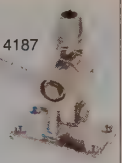

4187

4187 Ratchet Mount – Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1 in. x 14 male threads..... **$39.99**

396-1 Center-fed 1/2-wave Coaxial Sleeve Antenna – A Basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount..... **$69.99**

420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna – Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259... **$69.99**

5206-C End-fed Antenna, Matching Stub – Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount..... **$59.99**

5202 Collinear-phased 5/8 Wave Elements – A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount.. **$109.99**

5215 Squatty Body™ VHF Marine Antenna – A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount..... **$49.99**

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MARINE RADIO

IC-M72
Marine VHF Handheld
More Power, now 6 Watts; Covers All International, USA, Canadian and Weather channels; Auto scan function (starts when no signal received) Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. AquaQuake draining function emits a vibrating sound and clears water away from the speaker grill. Large capacity 2000mAH Lithium-Ion Battery. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 2.06"w x 4.90"h x 1.8"d; 9.9 oz..... **$199.99**

ICOM

AIRCRAFT RADIO

A-24
NAV/COM Handheld
Easy to operate featuring a large, clear LCD. The large keypad provides user friendly operation. Stores the last 10 channels used and is easy to recall those channels by pushing the "flip-flop" recall buttons. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. You can also input your intended radial to/from the VOR station and show the course deviation on the display. ANL (auto noise limiter) for noise reduction. RX: 108-136.975 MHz, WX: 161.650-163.275 MHz, TX: 118-136.975 MHz; Output power: 5W PEP, 1.5W carrier. Dedicated 121.5 MHz emergency key. NOAA weather channels. Side tone function allows you to hear your own voice via an external aviation headset. Convenient for carrying with supplied belt clip. Water resistant, IPX-4 grade, allows safe operation in rain. 200 alphanumeric memories; PC programmable. Includes long life 1650mAh battery pack.
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DJ-X7T Wideband Receiver Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. The large, illuminated, easy-to-read LCD display shows frequency information, the operating mode and memory channel. Features include: 1000 memory channel, four user-selectable antenna choices (SMA flexible whip, internal AM and SW bar antennas, or the the earphone cable). Comes with an AC charger that can charge the supplied Lithium Ion battery and lets you listen at the same time. The DJ-X7T can also clone to other DJ-X7 units through an optional cable. Dim: 2.4"w x 4"h x 0.7"d, 3.7 oz. C/O **$159.99**

DJ-X30T Wideband Receiver Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. FM stereo mode is available via the earphone jack. 1000 alphanumeric memories in 10 banks, and 5 scan modes. Listen to AM, FM and TV stations, the shortwave world, aircraft, business communications, the ham bands, fire, public safety, traffic and more. A selectable illuminated LCD keyboard system allows you to easily enjoy many advanced features, including whether or not you want the keypad mounted on the radio. A menu of selectable parameter settings and the easy-to-use design enables customizing and programming frequencies to suit your individual preferences. Uses "AA" batteries. Includes belt clip, hand strap, face panel, SMA antenna. Dim: 2.28"w x 3.89"h x 1.24"d, 5.3 oz..... CLOSEOUT **$189.99**

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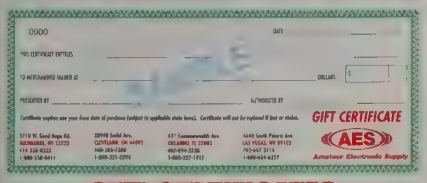

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GRE ANALOG & DIGITAL SCANNERS

PSR-100

PSR-300

PSR-500

PSR-200

PSR-400

PSR-600

PSR-100 Handheld Scanner – Frequency coverage 29-54, 108-174 & 380-512 MHz. Five pre-programmed bands: Marine, Fire/Police, Air, Amateur and Weather. Priority channel. 200 memories in 10 banks, SAME Weather alert with 10 FIPS area code memories and Skywarn function. Key lock for safety. Ten-digit channel and frequency display with all function indicators. LCD backlighting. PC programmable with cloning capability. External 9V DC power charge jacks, 3.5mm stereo earphone and cloning jacks. Includes flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires four AA cells (not supplied). Dim: 2.48"w x 5.7"h x 1.57"d; 0.48 lbs..... **$99.99**

PSR-200 Base Scanner – Affordable, with innovative features. Frequency coverage 29-54, 108-174, & 380-512 MHz. 200 memories and five pre-programmed bands for Marine, Fire/Police, Air, Amateur and Weather. Priority channel. Weather capability features SAME technology with 10 FIPS area memories and a Skywarn function. Scanning at 45 channel per second and sweeps at 80 steps per second. Up or Down search. Backlit LCD. Supports programming by a PC and unit-to-unit cloning. Rear panel 3.5 mm earphone jack. Includes a screw-in telescopic antenna and AC adapter. Dim: 8.27"w x 6.89"h x 2.36"d; 1.54 lbs..... **$99.99**

PSR-300 Handheld Triple Trunking Scanner – Latest technology includes coverage of the new 700 MHz band and upgradable CPU firmware to support future band changes. Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Frequency steps include: 3.125, 5, 6.25, 7.5, 8.33, 10, 12.5 and 25 kHz. Has 1000 memory channels in 10 banks for trunking bank and channel combined conventional mode memory provides multi-tracking of Motorola (type I, II and hybrid analog system), EDACS wide and LTR. Includes CTCSS and DCS sub-audible encoded squelch modes. A spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches are available for Marine, Fire/Police, Air, Amateur and Weather. Weather alert capability features SAME receiving with 10 FIPS area memories plus a Skywarn function. Scans at 60 channel per second and sweeps at 75 steps per second. Signal strength indicator on the LCD. Includes a flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires four AA cells (not supplied). Dim: 2.56"w x 5.7"h x 1.65"d; 0.53 lbs. **$199.99**

PSR-400 Triple Trunking Desktop/Mobile Scanner – Loaded with features and wide coverage including the new 700 MHz band. Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Multiple tuning steps. Has upgradable CPU firmware in support of future rebanding. Ten banks and 1000 channel memories for trunking bank and channel combined conventional mode memory. Multi-tracking of Motorola (Type I, II and hybrid analog systems), EDACS wide and LTR. CTCSS and DCS sub-audible encoded squelch. Spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches for Marine, Fire/Police, Air, Amateur and Weather. The weather alert capability features SAME receiving with 10 FIPS area memories plus a Skywarn function. Scans at 60 channel per second and sweeps at 75 steps per second. Signal strength indicator on the LCD. Backlit keypad. Includes a BNC telescopic antenna, mounting bracket, AC adapter and DC power cord. Dim: 7.28"w x 2.16"h x 5.31"d; 1.74 lbs..... **$199.99**

PSR-500 Handheld Analog/Digital Trunking Scanner – Uses an intuitive Object Oriented User Interface for ease of use. Frequency Coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Spectrum sweeper function seeks out nearby RF sources. Supports Motorola Analog, EDACS, LTR and Digital APCO (9600 bps) trunking systems. CTCSS and DCS subaudible squelch coding. Weather alert function with SAME technology and SKYWARN features. The 1800 memories may be structured to preferred bank sizes. Save complete radio configurations within the radio for recall into main memory as needed. Supports Talkgroup and individual call monitoring. With P25 digital systems, Automatic Adaptive Digital Tracking adapts the digital decoder to the modulation format, then analyzes the signal and adjusts any subtle changes caused by multipath or fading without manual intervention. The Large backlit LCD displays four lines by 16 characters. Backlit keypad and programmable, multi-colored super bright LED; program the color for the channel received. Operates from four AA cells (not included) or external 9V DC. Includes BNC antenna, USB PC cable, belt clip and two alkaline and rechargeable battery cases. Dim: 2.56"w x 5.71"h x 1.65"d; 0.53 lbs. **$449.99**

PSR-600 Advanced Trunking Scanner – Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Includes 1800 memories that may be dynamically structured to bank sizes you prefer. The large backlit LCD displays four lines by 16 characters. Backlit keys. Supported trunking systems include Motorola Analog, EDACS, LETS and Digital APCO (9600 bps). Weather alert function, SAME technology and Skywarn features. A spectrum sweeper function seeks out nearby RF sources. Operates from 13.8 VDC Includes telescopic BNC antenna, USB PC Interface Cable, AC adapter, DC power cable and DIN-E kit. Dim: 7.4"w x 2.4"h x 5.6"d; 2.7 lbs. **$449.99**

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BC-95XLT Compact Handheld Scanner with 800 MHz Coverage (Great for NASCAR!) – 200 Channels / 10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174, 406-512 & 806-956 MHz (excluding Cellular); 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; Sport Scanner; Public Safety Scanner; 2 AA battery operation: Alkaline or Rechargeable (batteries can be charged while in the scanner); PC Programmable (Serial Cable sold separately & Software available at www.uniden.com). Dim: 2.75"w x 4.5"h x 1.25"d; 6 oz..... **$119.99**

BC-346XT TrunkTracker III Compact Handheld Scanner – Frequency Coverage 25-225, 400-512, 806-960 & 1240-1300 MHz (excluding Cellular); TrunkTracker III (EDACES, Motorola & E.F. Johnson); 9,000 Dynamically Allocated Channels; Location-Based Scanning*; Location Alerts*, Crows-Flight Navigation*; Close Call™ RF Capture Technology instantly tunes signals from nearby transmitters; Fire Tone-Out; Alpha Tagging; 100 Quick Key System Access; Band Scope graphically finds radio activity; Temporary Lockout; Search with Scan; DCS/CTCSS Rapid Decode instantly detects and displays the Subaudible Tone so you can quickly determine the System Settings; S.A.M.E. Weather Alert: Specific Area Message Encoding - During a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; Public Safety Scanner; System/ Channel Number Tagging provides rapid access to a specific system or channel; Individual Channel Volume Offset, Priority ID Scan on trucked systems; PC Programming/Control. Dim: 2.4"w x 5.35"h x 1.22"d; 6 oz. ... **$219.99**

BCD-396XT TrunkTracker IV APCO 25 Compact Handheld Digital Scanner – Frequency Coverage 25-225, 400-512, 806-960 & 1240-1300 MHz (excluding Cellular); TrunkTracker IV (Motorola APCO 25 Digital, EDACES, Motorola & E.F. Johnson); 25,000 Dynamically Allocated Channels; Location-Based Scanning*; Location Alerts*, Crows-Flight Navigation*; Close Call™ RF Capture Technology instantly tunes signals from nearby transmitters; Fire Tone-Out; Alpha Tagging; 100 Quick Key System Access; Band Scope graphically finds radio activity; Audio AGC; Automatic Digital Threshold Adjustment; Temporary Lockout; Search with Scan; DCS/CTCSS Rapid Decode instantly detects and displays the Subaudible Tone so you can quickly determine the System Settings; S.A.M.E. Weather Alert: Specific Area Message Encoding - During a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; Public Safety Scanner; System / Channel Number Tagging provides rapid access to a specific system or channel; Individual Channel Volume Offset, Priority ID Scan on trucked systems; PC Programming/Control. Dim: 2.4"w x 5.35"h x 1.22"d; 6 oz..... **$519.99**
*Compatible GPS Required (not included)

uniden Base/Mobile Scanners

BC-340CRS Clock Radio Scanner with 100 Channels in 10 Banks – Covers: 25-54, 108-174, 406-512 MHz. Service Search; Weather Scan; AM/FM Radio; Alarm Clock with Snooze; Public Safety Scanner. Enable or disable the LCD Backlight. Comes with Telescopic antenna, AM loop antenna and AC adapter. **$99.99**

BC-370CRS Atomic Clock Radio Scanner with 300 Channels in 10 Banks – Covers: 25-54, 108-174, 225-380, 406-512 MHz, 806-956 MHz (excluding cell). All Hazard alert; Atomic Clock; Service Search; Weather Scan; AM/FM Radio; Alarm Clock w/Snooze; Pubic Safety Scanner. Enable or disable the LCD Backlight. Comes with Telescopic antenna, AM loop antenna and AC adapter. **$139.99**

BC-350C 800 MHz Base and Mobile Scanner Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 6 Preprogrammed service banks; 13 preset search bands; 100 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; luminescent backlit LCD screen. Comes with Telescoping antenna, Fixable mobile antenna, AC adapter, Cigarette lighter adapter and DC power cord.
Dim: 5.2"w x 1.6"h x 6.5"d; 1.6 lbs..... **$99.99**

BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state (except Hawaii); 100 channels per second scanning with search lockouts; Priority scan; BearTracker™ Warning System alerts to highway patrol frequency activity within 3 miles; Backlit LCD. Comes with AC adapter, DC power cord, Cigarette lighter adapter, Telescopic antenna, Window mount antenna and Mobile mounting bracket. Dim: 7"w x 2.5"h x 6"d; 4.9 lbs. **$179.99**

uniden

BCT-15X BearTracker™ Mobile Trunking Scanner with GPS Support (GPS not included) The GPS feature, when enabled, provides automatic system selection, permitting the scanner to turn system reception on or off depending on the user's location, and allows customizing the scanner display to show location-based information. In addition, the GPS feature will send alerts at areas of special interest, such as dangerous intersections, school zones, or points of interest. The BCT15X also offers Uniden's unique BearTracker system, which alerts mobile users to public safety activity in their area as well as Close Call® RF Capture Technology that automatically locks onto nearby signals with no programming necessary. This model supports TrunkTracker III systems: Motorola Type I/II/III Hybrid, EDACS and LTR analog trunk systems. Covers: 25-512, 758-824, 849-869, 894-960, 1240-1300 MHz (excluding cellular). Expanded 9000 memory channels with up to 500 channels per trunked system. 100 system Quick Keys. Enhanced GPS compatibility (controls the scanning of groups of channels within systems), channel number tagging, Fire Tone-Out Search (identifies the tones used on fire paging dispatch channels), band scope, individual channel volume offset and priority ID scan for trunked systems. Comes with: AC Adapter, Cigarette Lighter Adapter Power Cord, DC power cord, Mounting bracket, Telescopic BNC antenna, Remote PC Serial Cable (DB9) and Owner's Manual on CD. Dim: 7.2"w x 5.9"d x 2.2"h; 3.4 lbs... **$239.99**

BCD-996XT TrunkTracker IV Mobile Scanner with GPS Support (GPS not included) TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Covers: 25-512, 758-824, 849-869, 894-960, 1240-1300 MHz (excluding cellular); 25,000 Dynamically Allocated Channels; Close Call™ RF Capture Technology - Instantly tunes to signals from nearby transmitters; Location-Based Scanning (optional GPS required); Fire Tone-Out; Alpha Tagging; 100 Quick Key System Access; DCS/CTCSS Rapid Decode. Replaces the popular BCD-996T. Some of the new features are: Support for P25 Conventional channels that include NAC and TGID user differentiation; Independent GPS Control of Sites and Channel Groups (optional GPS required); Fire Tone Out Search - built-in frequency counter displays the received tones; Band Scope - gives a graphic representation of signal activity; Multi-color display backlight; NAC decoding; System / Channel Number Tagging - provides rapid access to a specific system or channel; Individual channel volume offset; Channel Alert (both tones and backlight color). Comes with: AC Adapter, Cigarette Lighter Adapter Power Cord, DC power cord, Mounting bracket, Telescopic BNC antenna, Remote PC Serial Cable (DB9) and Owner's Manual on CD.
Dim: 7.2"w x 5.9"d x 2.2"h; 3.4 lbs.....**$519.99**

ICOM HANDHELD RECEIVERS

R-5-SPORT-06 Wideband Handheld Receiver – Covers 495 kHz to 1309.995 MHz (cell blocked). Listen to AM/FM broadcast radio, police, fire, military, aircraft, amateur bands, and more. Preprogrammed SW memories. Weather alert. Large, backlit LCD shows frequency, operating and battery status, signal strength and alphanumerics of the 1250 memories (200 auto-write scan and 25 scan edge pairs). DMS; CTCSS/DTCS; Internal bar antenna; PC programmable; Cloning; Weather resistant; AA battery case; DC jack.
Dim: 2.25"w x 3.4"h x 1"d; 6 oz.... **CALL/WEB**

R-20-06 Wideband Handheld Receiver – Covers 0.15 to 3304.99 MHz (cellular blocked), 1250 memories. Perfect for AM/FM radio, monitoring boaters, aviation, conventional public safety and many other commercial services. Multiple scan functions with 100 ch./sec. scan and VSC which opens squelch only on modulated signal detection. Dual watch; Built-in 4-hour IC audio recorder; Auto squelch; CTCSS/DTCS & DTMF decode; RF gain and Attenuator; Noise blanker and Automatic Noise Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset capability for semi-duplex channel monitoring; Back-lit keypad and dot-matrix LCD with programmable channel names (up to 8 characters); Internal bar antenna for MF reception, BNC antenna connector; CI-V PC control capability; 11-hour Lith-ion battery.
Dim: 2.28"w x 5.5"h x 1.22"d..... **CALL/WEB**

RX-7-05 Wideband Receiver – Covers 150 kHz - 1300 MHz (cellular blocked) with AM, FM Narrow and FM Wide modes. Has a total of 1650 scannable alphanumeric memories. An independent search button automatically searches preprogrammed frequency ranges. Simple, 4-way cursor buttons provide quick navigation to menus and settings. Pre-set memory channels as well as a new memory management system will allow grouping of frequencies into your favorite categories or groups. It features a large, backlit dot matrix display. High speed scan & search at 100 channels per second, CTCSS/DTCS decode and VSC (Voice Squelch Control). Built-in RF-gain control, attenuator and auto power save. Earphone antenna for FM broadcast receive & ferrite bar antenna for AM. Rain resistant. External DC power jack. Comes with 1100mAh Li-Ion battery, charger and belt clip. Dim: 2.25"w x 3.03"h x 0.9"d; 7.1 oz.... **CALL/WEB**

COMMUNICATION RECEIVERS

R-75 HF + 50 MHz All Mode Communication Receiver Covers 0.03 to 60 MHz, all modes, 101 memories. Conventional tuning and direct input via keypad. Alphanumeric readout with bar S-meter; DSP; Two-level preamp; Noise blanker; Twin passband tuning; High/low-Z antenna inputs; Filter options. Operates from 13.8V DC with optional OPC-869 DC cable or 110V with supplied AC adapter. Dim: 9.5"w x 3.75"h x 9"d; 6.6 lbs. .. **CALL/WEB**

R-9500-02 Super Performance Multiple Function Wideband "measuring" Receiver – Covers 0.005 to 3335.000 MHz (cellular blocked), in USB, LSB, CW, FSK, WFM & AM modes with 1020 alphanumeric memories. Multiple scanning functions. Many normal and wide spectrum scope functions display on the the 7-inch wide multi-function TFT LCD. Five roofing filters before the first amplifier, dual independent 32-bit floating point DSP processors and digital I.F. filter. Noise Blanker; Voice synthesizer; Digital Voice recorder; USB connector; Receive assist functions. Dim: 16.6"w x 5.8"h x 13.3"d; 44 lbs ..... Special Order **CALL/WEB**

WIDE BAND PC RECEIVER

PCR-1500-25 Computer Controlled Wideband Receiver/Scanner – Connects to your Windows® 98SE/ME/2000/XP or Vista™ PC via a USB cable. Coverage from 0.01-3300 MHz (less cellular). Modes of reception include AM, FM-Wide, FM-Narrow, SSB & CW. (CW & SSB up to 1300 MHz only). Up to 25 channel activities can be observed on the multi-channel monitor screen at a glance. Audio can be stored on the PC in WAV format. Includes CTCSS/DCS, pocket beep, IF shift, auto memory write, AFC, AGC, WX alert, 24 digit DTMF tone decoder and up to 2700 memory channels per file. An optional plug-in DSP unit provides Noise Reduction & Audio Notch Filter. Includes AC adapter, whip antenna, USB cable & software CD.
All models include BON CS-4.5 Software with purchase.
Dim: 5.75"w x 1.6"d x 8.1"d; 2.6 lbs. ..... C/O **CALL/WEB**

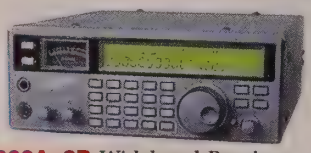
R-1500-05 – Same as PCR-1500-25, but w/Remote Control Head. ..... **CALL/WEB**

PCR-2500-25 – Similar to the PCR-1500-25, but features dual receive and is upgradable with the UT-122 digital decoder, UT-106 AF DSP unit, UT-108 DTMF decoder or UT-118 **D-Star** digital voice decoder..... C/O **CALL/WEB**

R-2500-05 – Same as PCR-2500-25, but w/Remote Control Head. ..... **CALL/WEB**

AR-8200 MK III-B Compact Wideband Receiver – Covers 0.5–3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes. 1000 alphanumeric memories in 20 banks of 50 channels. Scan and search. High stability TXCO; Dual VFOs and twin frequency readout; Alpha display; Band scope; Bar signal meter; Noise limiter; Attenuator; Computer control and programming capability. Optional cards for Memory expansion, CTCSS decode, 20 second Record/Playback and voice inverter (limit one card at a time). Includes: (4) NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12VDC), AC charger, belt-clip, auto cigarette lighter power cord, removable AM & telescopic whip antennas.
Dim: 2.4"w x 5.7"h x 1.0"d; 0.75 lbs. **$629.99**

AR-8600 MK II-B Wideband Receiver – It's extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section back-lit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Band scope; Alphanumeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and manual.
Dim: 5.9"w x 2.2"h x 6.9"d; 4.9 lbs..... **$929.99**



AR-5000A+3B Wideband Receiver – Ideal for professionals, top-end hobbyists, government departments and armed forces for its amazing sensitivity and strong signal handing capability. Covers 10 kHz to 2.6 GHz (less cellular) in AM, FM-N, FM-W, LSB, USB and CW modes with 2000 multi-function memories in 20 banks of 100 memories. Six bandwidths of 3, 6, 15, 30, 110 and 220 kHz. Sophisticated multiple scanning functions. Noise Blanker, AFC and AM synchronous detection. Operates on 12-16VDC @ 1A. Dim: 8.5"w x 4"h x 10.2"d, 7.8 lbs... SPECIAL ORDER **$2749.99**

LA-390 Wide Band Active Loop Antenna – A wide range, 10 kHz to 500 MHz single loop active receiving antenna. Only 1 ft. in diameter. Five selectable presets and ranges. A built-in high-gain 18dB for 150 kHz - 30 MHz, 14dB for 30 MHz - 500 MHz. Preselection sharpness has been improved over the previous LA-380. A BNC output jack with a 3.3 ft. BNC to BNC patch cable is provided. Operates from 12V DC or 110V using the supplied AC wall adapter..... **$379.99**

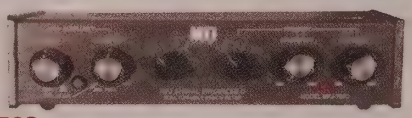
Wideband YAESU RECEIVERS

VR-500 PACK Mini-Receiver
Covers 100 kHz to 1300 MHz (cellular blocked) in CW, SSB, AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW to 16 MHz, VHF and UHF, VHF AM aircraft band, plus commercial and public safety frequencies. Keypad entry; 1000 memory channels, 100 "skip" and 10 search memories, 100 dual watch memories; Priority. Uses two "AA" batteries but also comes with FNB-79 NiCad battery and NC-60B wall charger.
Dim: 4.2"h x 2.2"w x 1"d; 7 oz. ..... **CALL/WEB**

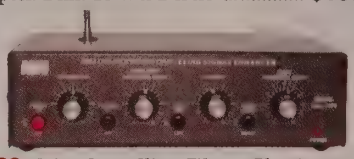
VR-5000 Multi-mode Scanning Receiver
Covers 100 kHz to 2.6 GHz (cellular blocked) in AM, FM-N, FM-W, LSB, USB and CW modes with VFO or direct keypad frequency entry and 2000 memories (10 banks) with alphanumerics. Dual receive; Versatile scanning system with automatic memory loading; Bandscope; World clock with time zone map. Optional accessories available are DSP-1 DSP unit and DVS-4 digital voice recorder.
Dim: 7.1"w x 2.8"h x 8"d; 4.2 lbs. **CALL/WEB**

MFJ RECEIVING AIDS

751B Super Tunable SSB/CW Audio Filter
Eliminates interference by zeroing in on signals with tunable PEAK/NOTCH filters. Tunes 300 to 3000 Hz with variable bandwidth from 80Hz to nearly flat. Up to 50 dB of notch depth. Uses 12 VDC or MFJ-1312D adapter.
Dim: 4.75"w x 1.75"h x 5"d. **$89.99**



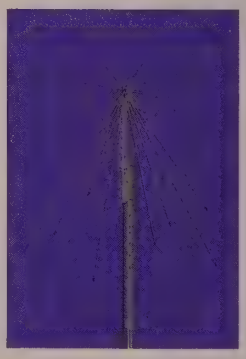
752C Dual Tunable SSB/CW Filter – Comprised of two tunable audio filtering systems to clarify and remove interference from SSB, AM, CW or RTTY signals. The primary filter is a two-section, four pole variable filter with PEAK, NOTCH, LOW PASS, and HIGH PASS functions. The second (auxiliary) filter is a single section two-pole PEAK or NOTCH filter. Variable bandwidth from 40 Hz to almost flat; Adjustable notch depth to 70 dB; Selectable NOISE LIMITER. Input for two rigs. Uses 12 VDC or 110V with the MFJ-1312D adapter. Dim: 10"w x 2"h x6"d. **$109.99**



1026 Noise Cancelling Filter – Plug in your station antenna and place a 60 dB NULL on noise and interference before it gets into your receiver. Handles lightning crashes, power line noise, dimmers, power tools, TV birdies and more. Change from a NULL to PEAK to enhance weak signals. Usable as an adjustable phasing network to combine two antennas for directional patterns. Built-in active antenna with telescoping whip. Works on all modes from 1.5 to 30 MHz. RF sensed T/R switch with adjustable delay bypasses transceiver on transmit. Uses 12VDC or 110V with MFJ-1312D adapter. Dim: 6.5"w x 1.5"h x 6.2"d..... **$189.99**

461 Morse Code Reader – Just place this tiny pocket-size portable code reader near your receiver's speaker. Then watch Morse code signals turn into solid text messages as they scroll across an easy-to-read LCD display. No cables to hook-up, no computer, no interface, no other equipment needed. Makes makes copying high speed CW a breeze. Automatic Speed Tracking locks on and tracks CW speed to decode high and low speeds; Instant Replay can review the last 140 characters. Uses a High Contrast 2-line LCD Display with 32 large 1/4 in. characters. A serial port lets you display CW text on a monitor using a computer and terminal program. When its too noisy for its microphone pickup you can connect the MFJ-461 to your receiver with a cable. Fits in your shirt pocket with room to spare. Smaller than a pack of cigarettes and weighs less than 5.5 oz. Uses a 9-Volt battery (not included)..... **$89.99**

5162 Receiver Cable – Connects the 461 or the 462B to a radio's external 3.5mm jack..... **$7.99**



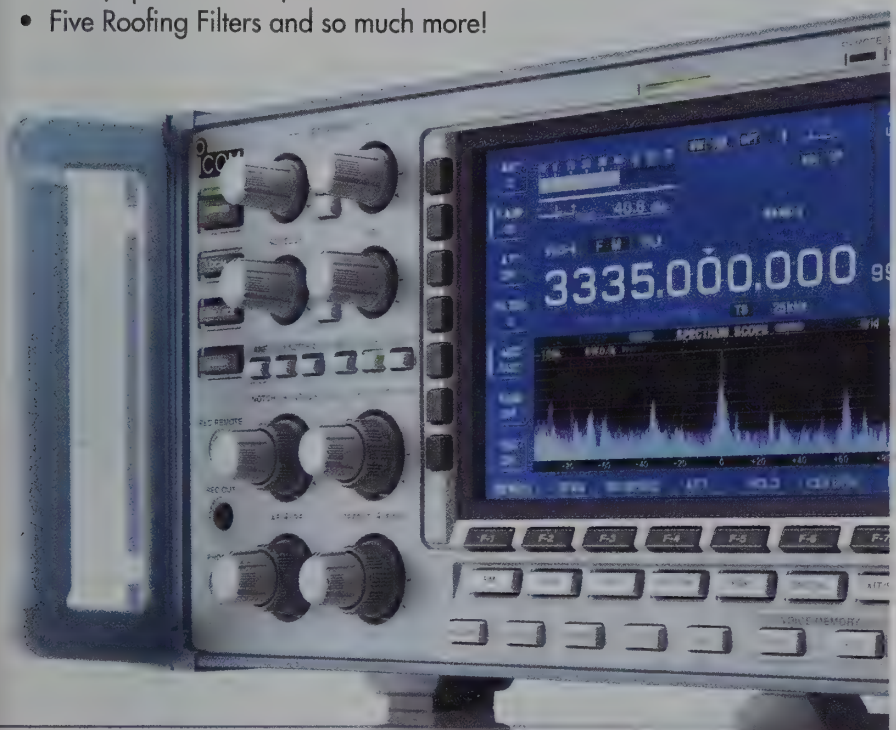
ICOM

AH-8000
Multi-Purpose Discone Antenna
Provides wideband onmi-directional signal reception from 100 to 3300 MHz, and can also be used to transmit on 144, 430, 1200 and 2400 MHz Ham bands; up to 200 Watts. Only 3 ft. high and 2.1 lbs. Attaches with two supplied U-bolts to any 1 to 2 inch mast. Comes preassembled with 49 ft. cable with type-N connectors on each end..... **$249.99**

Icom has the receivers for the experts...

IC-R9500 ICOM'S ULTIMATE WIDE BAND RECEIVER

- 0.005 - 3335.000MHz*
- USB, LSB, CW, FSK, FM, WFM, AM
- 1020 Alphanumeric Memory Channels
- P25 (Option UT-122)
- Five Roofing Filters and so much more!



Icom Mobile Receivers

IC-R1500

MOBILE OR PC CONTROL

- 0.01 - 3299.99 MHz*
- AM, FM, WFM, USB, LSB, CW
- 1000 Memory Channels
- Fast Scan
- Optional DSP (UT-106)
- Icom & Bonito Software Included
- Very Compact Design

IC-R2500

2 WIDE BAND RX IN 1

- 0.01 - 3299.99 MHz*
- AM, FM, WFM, SSB, CW (Main)
- AM, FM and WFM (Sub)
- 1000 Memory Channels
- Optional D-STAR (UT-118)
- Optional P25 (UT-122)
- Optional DSP (UT-106)

Bonito

All Icom "black box" mobiles come bundled with Bonito's RadioCom 4.5 software!

...or for those just getting started.

IC-R75 WIDE BAND RECEIVER

- 0.03 - 60.0 MHz*
- Triple Conversion
- Twin Passband Tuning
- Digital Signal Processing (DSP)

Visit AES today!

ICOM®

*Frequency coverage may vary. Refer to owner's manual for exact specifications.
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All specifications are subject to change without notice or obligation. 30268

GRUNDIG

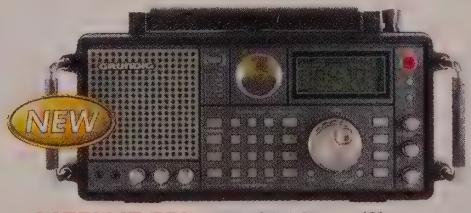
GS-350DL DELUXE – Offers exceptional value and great reception of AM, FM and international shortwave. Incorporates an analog receiver with digital display of frequency and clock. A single-conversion superheterodyne circuit design receives continuous shortwave from 2.9 - 27.4 MHz, covering all 12 shortwave broadcast bands (11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75 and 90 meters). A wide and narrow switch on the front panel allows you to narrow the radio's bandwidth to reduce adjacent channel interference. A new SW/AM frequency lock circuit improves stability to reduce drift. There is a built-in 12/24 hour clock with 90 minute sleep timer. Uses a built in telescopic antenna for FM and shortwave plus a built in ferrite bar antenna for AM. On the back panel there's a 75 ohm antenna jack for FM and terminals for AM/SW wire antenna and ground. Side left and right line level outputs and a stereo/mono switch and a stereo earphone jack for private listening. A 4 inch speaker provides solid sound. Comfortable carrying handle. Requires (4) D or AA cells (not supplied), includes an AC adapter.
Dim: 12.5"w x 7"h x 3.5"d; 3 lbs, 9 oz..... **$99.99**

G-6 AM/FM/Aircraft Band/Shortwave Portable Radio – The Aviator. Covers AM, FM, Aircraft Band (117-137 MHz) and Shortwave (1.711 to 29.995 MHz). Dual conversion, includes SSB reception. Digital tuning with LCD readout, 700 memories with 4 character naming. Tunes AM, FM, the VHF aircraft band or shortwave frequencies with direct keypad entry. Or use the AUTO tuning feature to browse stations and stop on the next available frequency. You can also use "D5" tuning to get a taste of what's playing—stop on the next available frequency for five seconds at a time. International clock and wake-up alarms. Power source: 2 AA batteries (not included); 2 AA rechargeable Ni-MH batteries (not included); AC adapter (included).
Dim: 4.9"w x 3"h x 1.2"d; 7.3 oz. **$99.99**

HPH-1
Performance Headphones
Overall listening pleasure is combined with extremely confortable split headphone padding. One size fits all and is fully adjustable. Type: Dynamic; Driver unit: 40mm diameter; Audio Response: 20 Hz - 20 KHz; Sensitivity: 113 dB +/- 3 dB; Impedance: 32 ohms; Maximum Power Handling: 40mW.
CLOSEOUT **$19.99**

FR-250 Emergency Radio – Receives AM (530-1710 kHz), FM (88-108 MHz) and 7 shortwave bands. Powered from a built-in hand-crank power generator with rechargeable Ni-MH battery pack, (3) AA batteries (not included) or AC adapter (not included). Built-in triple LED flashlight, emergency siren and cell phone charger. Main tuning knob with a precise fine-tuning control. Built-in 2.5 inch speaker and rear panel 3.5 mm earphone jack. Built-in antennas: telescopic for FM/SW, AM ferrite bar.
Dim: 6.5"w x 6"h x 2.5"d; 1.2 lbs..... **$49.99**

FR-600 Solarlink Emergency Radio – A compact radio that goes with you, anywhere. The digital tuner covers AM (520-1700 kHz), FM (88-108 MHz), and SW (5800-12200 kHz). Includes 7 NOAA weather channels with S.A.M.E. (location based alerts). Rotary selector knob and LED backlit digital display. Digital clock function with alarm, snooze and sleep. Powers from four difference sources: Dynamo/hand crank which charges the built-in NiMH battery; (3) AA batteries (not included); AC via USB adapter (not included) and top-mounted Solar Panel. You can even use it to charge your cell phone or MP3 player. Has a powerful light source (four white and one red LED) with magnifier and emergency siren/flashing beacon. Jacks: 3.5mm headphone, DC-in, USB phone charger and AUX-in. Gaskets seal out moisture.
Dim: 7.7"w x 8.5"h x 2.5"d; 1.9 lbs..... **$79.99**



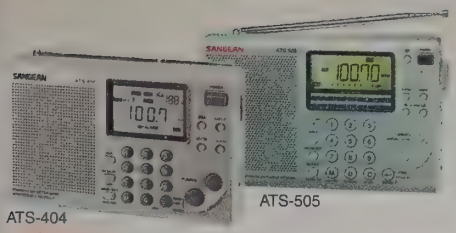
SATELLIT 750 AM/FM-Stereo/Shortwave/Aircraft Band Radio with SSB – When you want full shortwave capabilities and a classic design, choose the Satellit 750. A 360-degre rotating AM antenna enhances the radio's ability to pull in weak AM signals. You can listen to AM, FM , SW, LW, SSB and aircraft band frequencies, and you can program in up to 100 of your favorites for each band. You can also connect your MP3 player for even more listening choices. AM, FM, Aircraft Band (118-137 MHz) and Shortwave (1711-30000 KHz); Single Side Band (SSB); Auto/Manual/Direct frequency key-in and station memory tuning; Auto Tuning Storage function (ATS) for FM/AM; 1000 station memories; Dual alarm clock function.
Dim: 14.7"w x 7.2"h x 5.8"d; 5.25 lbs..... **$299.99**

C.CRANE

SWP AM/FM/Shortwave Pocket Radio
Exceptional AM reception and audio quality. Sensitive enough to outperform comparable radios in its class. Small, tuck it in a briefcase, purse or carry-on bag. Covers: AM (522-1620 kHz @ 9 kHz step) & (520-1710 kHz @ 10 kHz step), FM (70-108 MHz), SW1 (2300-7500 kHz) and SW2 (9200-22000 kHz). Quickly and easily retrieve up to 200 favorite AM/FM and Shortwave stations in any order by simply turning the Tuning Knob and using the *favorites* feature. Non-volatile memories remain when you take out the batteries. It has a keypad for direct access to any frequency and a flip-out back stand. Alarm clock, stereo headphone jack, sleep timer, display light and carry pouch. Runs about 70 hours on 2 "AA" batteries (not included).
Dim: 5"w x 3" h x 1.2"d; 6.5 oz..... **$44.99**

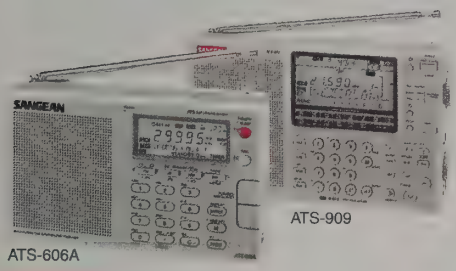
CSW AM/FM/Shortwave Radio – Covers: AM (522-1620 kHz @ 9 kHz step) & (520-1710 kHz @ 10 kHz step), FM (87-108 MHz) and SW (1711-29999 kHz). Large, easy-to-read LCD display and all the adjustments necessary for excellent performance under various conditions. Features: RF gain, Bandwidth, Bass/Treble controls, Fast and slow tuning, 50 memories, Lighted buttons, Clock radio with snooze alarm, Stereo line output and headphone jack, IF output for input to Computer, 5-inch speaker. Runs on four "D" size batteries or four backup "AA" batteries (not included). Using the supplied AC adapter the built-in charging circuit will recharge NiMh batteries (not included).
Dim: 11.25"w x 7.25"h x 3.5"d, 4.2 lbs. . **$139.99**

CC2B AM/FM Broadcast/2M Ham/Weather + NOAA Alert Radio – Receives AM (520-1710 kHz), FM (87.5-108 MHz), 2M (144-148 MHz) and 7 Weather channels. Designed for long-range AM reception and emergencies. Features audio that's optimized for voice clarity. After a station is selected, the signal is evaluated for several seconds, then locked in. The Weather Band keeps you informed of any government-issued alerts and the 2M band can be useful. It can act like a simple radio scanner searching five memories for Ham activity. Bright backlit LCD display has three levels of adjustable brightness plus "off ". Five memories per band (AM, FM, Weather and 2-Meters), adjustable bass/treble, clock alarm with sleep timer, auto scan, stereo headphone jack, line input and output jacks.
Dim: 11"w x 6.5"h x 4"d; 4 lbs. **$149.99**



ATS-404 **PLL Synthesized World Band Receiver** Coverage: AM, FM (stereo with earphones) and 14 SW bands (2.3–26.1 MHz). Tune via Up-Down buttons, Automatic scan Keypad or 45 Memory presets. Backlit LCD, 12/24 hour clock-timer with alarm and snooze. Low-battery indicator, lock, dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5"w x 4"h x 1.5"d; 10 oz..... **$79.99**

ATS-505 **PLL Digital World Radio** – Coverage: LW, AM, FM (stereo via earphones) and SW (1711 kHz to 29.999 MHz). Tunes via Manual tuning knob, Up-Down buttons, Scan, Keypad, or 45 memories. SSB reception, auto preset System lock, tone control, local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, wind-up antenna, carry case & earphones. Uses (4) "AA" batteries. Dim: 8.5"w x 5.3"h x 1.6"d; 24 oz.. **$129.99**



ATS-606A **PLL World Band Receiver** – Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD, 54 memories, scanning fine tuning, dual digital clock-timer-alarm, FM stereo with earphones. Uses (3) "AA" batteries. Includes wind-up antenna, AC adapter and earbuds. Dim: 5.75"w x 3.5"h x 1.25"d; 1 lb..... **$139.99**

ATS-909 **PLL World Band Receiver** – Coverage: LW, MW, FM and SW (1711 kHz to 29.999 MHz). Tunes via: Manual knob, Keypad, Auto scan, Up-down tuning or Memory recall. SSB & CW reception, wide/narrow switch. Stores 307 presets in alpha memories. RDS display of station name/time. Clock with 12/24 hour time, (3) timers and sleep timer; displays 42 city times. Recorder output. Uses (4) "AA" batteries. Includes AC adapter, wind-up antenna, stereo earbuds and carrying case. Dim: 8.5"w x 5.375"h x 1.375"d; 1.9 lbs. **$249.99**

RCR-2 **Digital Atomic Clock Radio** – A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5"w x 3"h x 5.25"d; 2 lbs..... **$69.99**

SANGEAN™

WFR-20 **Wi-Fi Internet Radio** – You can listen to over 6000 Internet Radio stations (over 20,000 on-demand streams) in 250 locations from 60 genres. Operation requires a broadband wireless Internet (802.11b/g) or wired Ethernet (10/100 Mbps, RJ-45) network connection to connect into your wired or wireless home network. It also has a feature called "Network Music Player" which taps into the music stored on your PC using Windows® Media Player®. Supported sound formats include: MP3, WMA, AAC, AIFF, FLAC, Real Audio and AU. Features: 12 radio station presets; built in 12/24 hour clock with four alarm timers and sleep timer; bass and treble controls; three-line alphanumeric display. Intuitive menu system operates from single rotary control knob or full function remote control. Great sound from the acoustically tuned wooden cabinet housing two high quality 5 inch full-range stereo speakers. With the Network Music Player function a listener has access to their digital music library in any room in the house with no additional wires using their Wi-Fi network. Rear 3.5mm jacks for auxiliary input (iPod, MP-3 player, etc), earphone output jack, line output jack and RJ-45 Ethernet. Note: does not tune conventional AM/FM broadcasts. Dim: 11.5"w x 4.5"h x 9.5"d..... **$279.99**

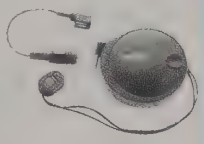
WR-1 **High Fidelity Radio** – This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality at a comparable price. The walnut cabinet will accent any room. Headphone, record out & 12VDC input jacks. Dim: 9.4"w x 4.4"h x 6.6"d; 5.18 lb. **$99.99**

HD Radio™

HDT-1 **Component HD Tuner** – An FM (87.5-108 MHz) and AM (520-1710 kHz) HD Radio tuner with multi-casting reception. Add it to your home audio system, and experience the crystal-clear sound and expanded listening choices of HD Radio programming. Gain access to the new, free digital programming where you'll hear a big improvement in sound fidelity; FM approaches CD-quality, and AM sound rivals current FM quality. The HDT-1 also receives standard analog broadcasts. Text information such as station IDs, artist names, and song title plus a clock displays on the LCD screen.
Features: 40 station presets (20 FM, 20 AM); External AM and FM antenna input; Signal strength meter; Backlit LCD display; RCA stereo line-level output drives your system amplifier; IR remote control. Dim: 16.9"w x 2.8"h x 10"d, 5.6 lbs. **$179.99**

HDR-1 **Tabletop HD Radio** – Experience the new crystal-clear, distortion-free technology that gives you CD quality FM and FM quality AM reception. Covers: FM 87.5-108 MHz and AM 520-1710 kHz, has 20 memory presets, and features a wood grained, acoustically-tuned wooden cabinet that creates improved bass response and realistic acoustic reproduction. Includes a clock with sleep timer, snooze, and dual alarm with Humane Waking System – a choice of a soft gentle buzzer with gradually increasing volume, or your favorite local station. An AUX-input allows connecting a MP3 player. A IR Remote Control allows convenient operation of all functions and station scanning. The Backlit LCD Display shows Channel No., Channel Frequency, Ensemble Label, Service Label, Dynamic Label, Transmission Mode, Data Rate, Secondary Service Availability and Clock functions. Additional features: Auto Tuning System (ATS); Auto Preset System; FM RDS (TBC); Automatic Multiplex Re-configuration; Analog Only Mode; Split Audio Mode; Tone & Bass Control EQ Pre-sets; Multicast Capability; Program Associated Data (PAD); Hybrid and Full Digital Radio Reception; Headphone jack. Includes the AC power cord, external AM & FM antennas and remote.
Dim: 4.5"h x 11.5"w x 7.5"d, 6 lb, 9 oz... **$179.99**

ANT-60 – Portable, wind-up, shortwave antenna for use with most shortwave receivers..... **$13.99**



RCA SUPERADIO III™

RP-7887 **High Performance, Long Range AM/FM Portable Radio** – Tuned RF stages on both AM and FM; FM swivel whip antenna, AM ferrite rod antenna; Ceramic IF filter, plus 3 IF tuned circuits on FM; 4 IF tuned circuits on AM; Selectable normal or wide AM; Switchable AFC; Precision vernier tuning; 6.5 in. woofer, plus 2 in. tweeter; Bass and treble controls; Volume plus loudness circuitry to boost bass response at low volumes; Headphone jack; AM/FM external antenna terminals; Uses AC power or six D-cell batteries (not included)..... CLOSEOUT **$59.99**

Closeout - Limited Quantity!

2009 PASSPORT to World Band Radio
Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular world band radios, many antennas and expanded station address lists. 528 pages. **IBS 2009** **$22.95**

MFJ

8100W Regenerative Shortwave Receiver Listen to SW and Hams on SSB/CW and more. Covers all or part of the 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15 and 13M in 5 bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Requires 9V battery, earphones or plug-in speakers. Dim: 7"w x 2.5"h x 6"d; 1 lb. **$109.99**

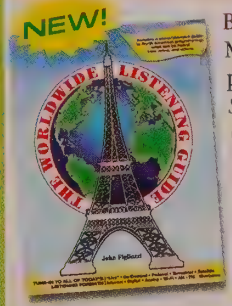
8100K Same, but in KIT form. **$79.99**

306 AM/FM/SW Converter – Add 19, 25, 31, and 49 Meter band Shortwave reception to your car radio. Simply plug-in the vehicle's antenna, insert the 306 cable into the car radio and connect to 12V. Dim: 5"w x 1.5"h x 3.5"d..... **$99.99**

SONY

ICF-SW7600GR – Covers 150 kHz to 29.999 MHz and 76-108 MHz FM with stereo via headphone jack. LCD readout. Tuning via: keypad, manual, auto scan and 100 memory scan. SSB/CW mode and AM synchronous detection; LED "tune" indicator; Dual time clock with sleep timer; Record jack; Tone switch; 3 inch speaker; External antenna jack; Uses four "AA" cells or 6 VDC. Wind-up antenna, wrist strap, case. Dim: 7.6"w x 4.75"h x 1.3"d; 22 oz.... **$159.99**

THE WORLDWIDE LISTENING GUIDE



By John Figliozzi. Modeled on his popular *Worldwide Shortwave Listening Guide*, this new book explains radio listening in all today's formats– "live," on-demand, WiFi, podcast, terrestrial, satellite, internet, digital and, of course, analog, AM, FM and SW. Book includes a comprehensive programming guide to what can be heard how, when and where. Spiral-bound to open in a flat, easy-to-use format. **W5Y WWLG $24.99**

MFJ PRESELECTORS, TUNERS ACTIVE ANTENNAS, etc.

956 SWL Receiver Antenna Tuner/Preselector Boost your favorite stations while rejecting images, intermodulation, and phantom signals! Greatly improves reception from 0.15 to 30 MHz, especially below 2 MHz. It has tuner bypass/ground receiver positions. Dim: 2"h x 3"w x 4"d. ... **$69.99**

959C SWL Receiver Antenna Tuner/Pre-Amplifier – Provides proper impedance matching resulting in maximum signal transfer from antenna to receiver. It covers 1.6 to 30 MHz. 20 dB preamp with gain control boosts weak stations. 20 dB attenuator prevents overload. Select from 2 antennas and 2 receivers. Dim: 9"w x 2"h x 6"d. Use a 9-18 VDC or 110 VAC with the optional MFJ-1312D.... **$109.99**

1040C All-Band Preselector – A low-noise, high gain dual-gate MOSFET amplifier boosts signals and rejects out-of-band signals and images from 1.8 to 54 MHz. Push-button switches for two receivers, two antennas, attenuator and ON/BYPASS. Usable with transceivers up to 125W (automatic bypass on TX), bypassed when off. Uses 9 to 12VDC or 110V with an MFJ-1312D. Dim: 6.5"w x 2.5"h x 4"d. **$119.99**

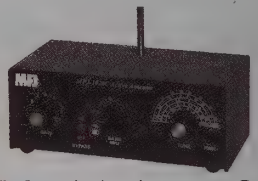
1045C Receiver Preselector – Improve copy on weak signals and reject out-of-band signals, images from 1.8 to 54 MHz. Uses dual gate MOSFET, bipolar transistors for low noise and up to 20dB gain. Gain control. Connect 2 antennas, 2 receivers. Uses 9-18 VDC or MFJ-1312D adapter..... **$89.99**

202B RX Noise Bridge – Quickly adjust almost any antenna for maximum performance, 1 to 100 MHz. Easily determine whether to lengthen or shorten your antenna for minimum SWR, the resonant frequency, feedpoint resistance and reactance. Works with any receiver or transceiver. Calibrated resistance scale, expanded capacitance range and built-in range extender. Dim: 4.25"w x 2"h x 4"d. Uses a single 9-Volt battery (not included)..... **$79.99**

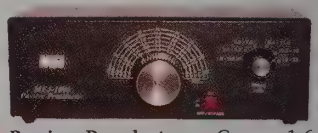
16010 Random Wire Antenna Tuner – Match your transmitter to almost any random length of wire to any transmitter from 160-10 meters, up to 200W. You can match impedances that are lower than your transmitter impedance (such as a vertical or mobile whip) by simply swapping the normal transmitter and antenna connections, locating the tuner at the feed point of the antenna. Dim: 3"w x 2"h x 2"d. **$69.99**

1024 Outdoor Active Antenna – Covers 50 kHz to 30 MHz. A separate RF amplifier with a 54 in. whip antenna mounts remotely away from electrical noise for maximum signal. It connects by the supplied 50 ft. coax to an inside control box with 20 dB attenuator, gain control, ON LED and a switch that selects two receivers and auxiliary or active antenna. Uses 12VDC or 110VAC with an MFJ-1312D adapter. Dim: (control) 6"w x 3"h x 5"d; (remote) 3"w x 2"h x 4"d..... **$149.99**

1022 Compact Active Antenna – Covers 0.3 to 200 MHz. Improves the reception of international shortwave, ship-to-shore, airline, commercial RTTY, etc. Improves scanner radio reception from high to low band VHF. The J-310 FET and MRF-901 devices give excellent low noise reception using the 20 in. telescoping antenna. Has On/Off switch, power on LED. Uses 9V battery or 110 VAC with MFJ-1312D. Dim: 3"w x 1.25"h x 4"d. **$69.99**

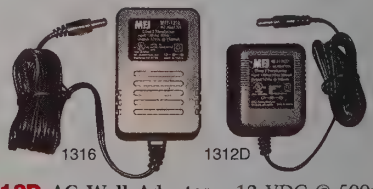


1020C Indoor Active Antenna – Covers 0.3 to 40 MHz with a 21 inch telescoping antenna and dual gate MOSFET & gigahertz bandwidth buffer that improves gain and selectivity, reduces noise and intermod. An effective preselector when used with an external antenna system. Uses 9V battery, 9-18VDC or 110V with an MFJ-1312D adapter. Dim: 6"w x 2"h x 5"d. **$99.99**



1046 Passive Preselector – Covers 1.6 to 33 MHz, receive only, passive (non-amplified). Improves the performance of nearly any HF or shortwave receiver. Eliminates phantom signals, intermod, blocking and cross modulation caused by strong out-of-band shortwave broadcast signals mixing and producing unwanted in band signals. Protects your sensitive receiver input from damage caused by very strong local signals. Dim: 7.5"w x 2.5"h x 3.25"d..... **$99.99**

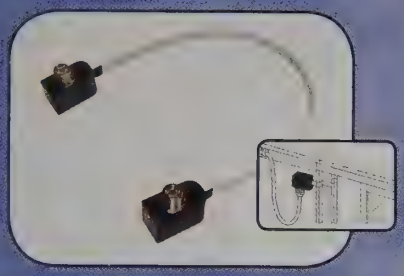
1048 Passive Preselector – Same as 1046, but a RF sensed TX/RX switch with adjustable delay automatically bypasses on transmit. **$129.99**



1312D AC Wall Adapter – 12 VDC @ 500mA, 2.1mm plug..... **$15.99**

1316 AC Wall Adapter – 12 VDC @ 1.2 Amps, 2.1mm plug..... **$21.99**

Life is a JOURNEY. Enjoy the ride!



NEW! COMET CTC-50M
Window Gap Adapter!

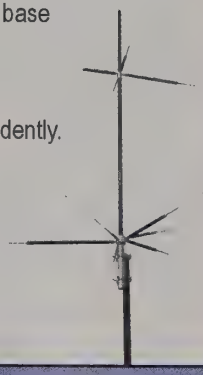
Max Power: HF 100W PEP
VHF: 60W FM
UHF: 40W FM
900MHz - 1.3GHz: 10W
VSWR: <500MHz 1.3:1
>500MHz 1.5:1
Impedance: 50Ohm
Length: 15.75"
Conn: 24k Gold Plated SO-239s

MALDOL HVU-8
Ultra-Compact 8 Band Antenna!

Unique ground radial system rotates 180 degrees around the base if building side mounting is required.

Max Power: HF 200W SSB/100W FM
6M - 70cm: 150W FM
TX: 80/40/20/15/10/6/2M/70cm
Impedance: 50 Ohm
Length: 8'6" approx
Weight: 5lbs 7oz
Conn: SO-239
Max Wind Speed: 92MPH

Each band tunes independently.
Approx 2:1 band-width:
80M 22kHz
40M 52kHz
20M 52kHz
15M 134kHz
10M 260kHz



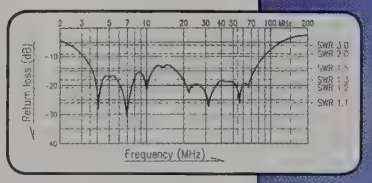
COMET CHA-250B
Broadband HF Vertical!

3.5 - 57MHz with SWR of 1.6:1 or less!

- *NO ANTENNA TUNER NEEDED*
- *NO RADIALS*
- *NO TRAPS*
- *NO COILS*

If you suffer in an antenna restricted area, must manage with space restrictions or you simply want to operate incognito you will be forced to make significant antenna compromises. The CHA-250B makes the most of the situation, making operating HF easy!!

Max Power: 250W SSB/125W FM
TX: 3.5– 57MHz
RX: 2.0– 90MHz
Impedance: 50Ohm
Length: 23'5"
Weight: 7lbs 1 oz
Conn: SO-239
Max Wind Speed: 67MPH



NEW! COMET H-422
40/20/15/10M compact, broadband, rotatable dipole!

Assemble in either a "V or horizontal ("H") configuration. CBL-2500 2.5kW balun and heavy duty hardware included.

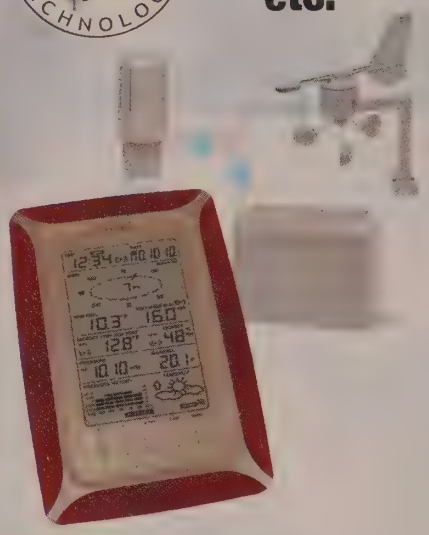
Max Power: 1000W SSB / 500W FM
SWR: Less than 1.5:1 at center frequency
Rotation Radius: "V" 12' 6" "H" 17' 5"
Length: "V" 24' 5" "H" 33' 10"
Weight: 11 lbs 14 ozs
Wind load: 3.01 sq feet
Max Wind Speed: 67 MPH

COMET and Maldol

For a complete catalog, call or visit AES.

Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710
909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

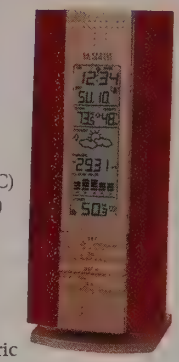
WEATHER STATIONS, etc.



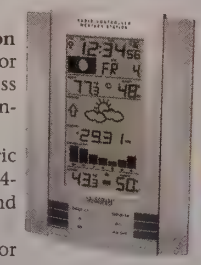
WS-1612CH-IT Professional Weather Center
Operates wireless at 915 MHz from a remote sensor up to 330 ft. away.
Provides:
- Weather forecasting function with 3 weather icons and weather tendency indicator
- Records MIN/MAX temperature and humidity with time and date of recording
- Low/high outdoor temperature & humidity alarm
- Relative air pressure (inHg or hPa)
- Barometric pressure with 12 hour history graph (in inHg or hPa)
- Storm warning alarm
- Total rainfall (inches or millimeters)
- Wind speed (mph, km/h or m/s, and Beaufort scale); Wind chill (°F or °C); MAX wind speed with time & date of recording; high wind speed alarm; 16-step wind direction display
- Storage of 200 sets of history weather data recorded in 3-hour intervals; manual reset
- Selectable LCD contrast, Low Battery indicator
- Dim: Receiver: 8.9"h x 6"w x 1.25"d; Thermo-hygrometer: 2.25"h x 2.44"w x 6.18"d; Rain Sensor: 5.51"h x 2.75"w x 5.39"d; Wind Sensor: 9.84"h x 6.45"w x 7.58"d. **$139.99**

WS-7014CH Wireless Forecasting Station
Displays indoor and outdoor temperature plus indoor relative humidity and atomic time. Forecast icons indicate conditions (Cloudy, Sunny or Rain). The wireless outdoor temperature sensor can be located up to 82 ft. away. Finished in black with aluminum trim. Can be free standing, with the included stand attached, or may be hung on the wall. Powered by (4) "AA" alkaline batteries.
Dim: 5.43"h x 3.54"w x 1.18"d..... **$49.99**

WS-7394U-CH-IT
Wireless Forecast Station
Operates wireless at 915 MHz with a range of up to 330 ft.
- Weather forecasting function with 3 weather icons and weather tendency indicator
- Outdoor temperature (°F or °C)
- Indoor temperature (°F or °C) and relative humidity %
- Records MIN/MAX temperature and humidity with time and date of recording
- Barometric pressure with 12 hour history graph; Barometric tendency arrow and Indoor comfort level icon
- Atomic time and date with manual setting; automatically updates for Daylight Saving Time (on/off option); 12/24 hour time display; Perpetual calendar; Time zone setting
- Receiver and Sensor both use (2) "AA" alkalines
Dim: 8.75"h x 4"w x 1.5"d..... **$69.99**

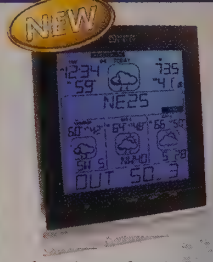


WS-8035U-SAL-IT
DLX Wireless Forecast Station
Comes with wireless outdoor thermometer and wireless outdoor relative humidity sensor with a 300 ft. range.
- Digital Relative Barometric Pressure Readout with 24-hour History Graph, Trend Arrow and Forecast Icon
- Indoor and Outdoor Temperature (F or C) and Humidity (% RH)
- Indoor Comfort Level Icon
- Min./ Max. Temperature and Humidity with Time and Date Stamp
- Atomic Time and Date with Manual Setting
- Auto Update for Daylight Saving Time
- Time Alarm with Snooze
- 12 or 24 Hour Time, auto updates for DST
- Perpetual Calendar • Moon Phase Indicator
- Time Zone Setting, US Time Zone Map
- (2) AA alkaline batteries in receiver and sensor
- Dim: 10"w x 7.5"h x 1"d. **$89.99**



WS-450B Color Forecast Station
Features animated color weather graphs that make it easy to gauge the weather at a glance. Predicts the weather for the next 12-24 hours and displays a forecast icon based on the change of atmospheric pressure. The indoor/outdoor temperature and humidity displays include animated circular color graphs. Also displays the heat index and dew point.
- Comfort level indicator
- Memory function records MIN/MAX temperature, humidity, heat index and dew point
- 12 or 24 clock includes an alarm with snooze and automatically sets to the U.S. Atomic Clock, and adjusts for Daylight Saving Time
- Perpetual calendar
- Backlight with auto, high, low and off settings
- Remote sensor with range up to 246 ft.
- Power: Main unit (3) AAA alkalines or included 6.0 volt AC adapter; Sensor: (2) AAA alkalines
- Dim: 6.5"w x 3.5"h x 2"d..... **$69.99**

WS-9023U-IT Wireless Weather Station – Monitor indoor and wireless outdoor temperature, outdoor humidity, min./max. temperature and humidity and 12/24 hour time. Wall hanging or desktop. Uses 2 "AA" batteries in receiver and sensor. 915 MHz, 330 ft. range. Dim: 4.54"h x 1.14"d x 1.14"d..... **$29.99**



WD-3209U 4 Day Internet Powered Wireless Forecaster with Forecast Alerts
Connected to the internet, this unit gives you access to the same quality weather information as meteorologists. It works without Wi-Fi, there is no software to install, and the forecasts are totally free (no subscription). High-speed internet and a network router are required. A Weather Gateway connects to the router with an included LAN cable and feeds continuous secure wireless forecasts up to 330 ft. to the display. A PC is only required for one-time easy set-up or to customize features. You can choose forecast information from over 60,000 locations in the United States and Canada. The wireless display features a large LCD with E.L. backlight for easy night viewing; Automatic time and date; Time alarm with snooze; Indoor temperature and forecasts for the daily high and low temperature. Includes a wireless outdoor temperature sensor. With this unit you can also monitor your backyard temperature from anywhere in the world with a free membership available at *theweatherclub.com*.
Dim: 5.9"w x 1.18"d x 7.4"h..... **$99.99**

WA-1240U Weather Direct 4 Day Internet-Powered Talking Weather Station – An advanced weather station with a voice: *"Good morning Jack (Put Your Name Here), here's the forecast for Milwaukee, Wednesday, September 30th"*... or create your own custom message. Push the audio forecast button to play the current forecast and the A/B/C speaker buttons to play information that you select. Plus, listen to your choice of news headlines, entertainment, sports, etc. via the same wireless internet connectivity used by the WD-3209U shown above. Receive forecasts for each morning, afternoon, evening and night for today, tomorrow, day 3 and day 4. The wireless display features automatic time and date, time alarm with snooze and forecasts for the daily high and low temperature. The bottom LCD line scrolls your wireless outdoor temperature, selected location name, sun rise/set and forecast. The included wireless temperature sensor monitors your backyard temperature from the monitor, up to 330 ft. away. Like the WD-3209U, you can also monitor your backyard temperature from anywhere in the world via the internet. Uses (3) C and (2) AA batteries (not included). Includes AC adapter.
Dim: 8.26" w x 5.67"h, 2.92"d, 2.5 lbs.....**$99.99**

WS-9121U-IT-CBP Wireless Thermometer (left) Shows Indoor temperature and wireless outdoor temperature from remote sensor. 12/24 hour time display. Uses CR2032 and (2) AAA alkalines.
Dim: 4.66"h x 2.29"w x 0.69"d. **$19.99**

WS-9080U-IT-CBP Wireless Temperature Station (right) – Indoor temperature, and outdoor temperature via remote sensor. Records MIN/MAX with time/date stamp. 12/24 hour Atomic clock; . Uses (2) AAA and (2) AA alkaline batteries.
Dim: 5.35"h x 3.74"w x 0.74"d..... **$29.99**

WS-9004U-IT
Wireless Rain Gauge
Wireless, self-emptying bucket. Shows total rain and rainfall for the last 24 hours.

- User set rainfall alarm from .05 to 4 in. over 24 hours
- Current rainfall indicator; light rain and heavy rain indicators
- Remote sensor range: up to 330 ft.
- Receiver and sensor both use (2) AAA alkalines
- Dim: 3.85"h x 2.35"w x 0.83"d. **$29.99**

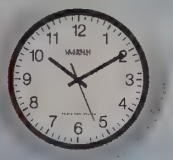
EA-3010 Handheld Anemometer
Check local wind speed and temperature. Wind mode indicates digital maximum or average wind speed (mph, m/s, km/h, knots) digitally plus Beaufort on a 0-12 bargraph scale. Temperature mode shows digital temperature and wind chill. LED back light and auto-off. Weather Resistant Case, neckband. Powered by (1) CR2032 battery.
Dim: 4"h x 1.63"w x 0.7"d..... **$49.99**

WT-8005UB Atomic Clock – Select your time zone and this advanced clock will automatically synchronize itself to the WWVB radio signal from NIST in Fort Collins, CO using its own built-in VLF receiver

Only **$29.99**

Plus
- Shows 12/24 Hour Time
- Calendar: Month, Date, Day
- Automatic Daylight Savings Time Update
- Time Alarm w/ Snooze
- Monitors Indoor Temperature (°F or °C)
- Wall Hanging or Free Standing
- Up to 24 months operation on (2) AA Alkaline Batteries (not included)
- Dim: 9"w x 7"h x 1"d

WS-8117U-IT-OAK

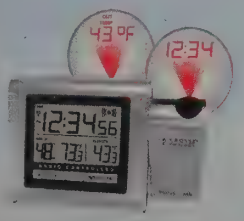


WT-3102S

WS-8117U-IT-OAK Digital Atomic Wall Clock
Shows 12/24-hour time, a perpetual calender, indoor temperature and outdoor temperature via a remote sensor up to 82 ft. away. Clock sets automatically via WWVB, has 13 time zone settings, daylight saving time and 8 moon phase icons. Alarm with snooze. Wall mount or free standing. Requires (4) "AA" alkaline batteries. Oak finish.
Dim: 12.2"w x 8"h x 1.18"d..... **$46.99**

WT-3102S Analog Atomic Clock – 10 in. diameter. Automatically sets time, accurate to the second and updates for daylight saving time. Four time zone settings. Uses "AA" alkaline battery... **$19.99**

WT-5120 Projection Atomic Alarm Clock
Displays 12 hour time, indoor temperature and humidity, plus outdoor temperature on its large LCD display. It alternately projects time and outdoor temperature on the ceiling or wall. Alarm and snooze. AC Adapter Included. Dim: 3.6"h x 5.52"w x 1.9"d. **$39.99**

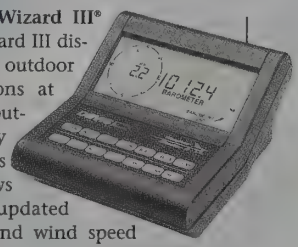


DAVIS WEATHER STATIONS

6152 Wireless Vantage Pro2 – It uses frequency hopping Spread Spectrum to transmit and receive data up to 1000 ft. line of sight. Quick view icons show the forecast at a glance–sunny, partly sunny, cloudy, rain or snow while a moving ticker-tape display gives more details. The sensor suite combines a rain collector, temperature, humidity and anemometer into one package–making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat. **$539.99**

6250 Vantage Vue Wireless Weather Station
Uses frequency-hopping spread spectrum radio technology to wirelessly send data up to 1,000 feet and provides weather updates from the outdoor integrated sensor suite to the indoor console every 2.5 seconds. The indoor console's Weather Center feature, provides extensive additional information for each weather variable. These include daily highs and lows, temperature changes by the hour, air pressure changes and astronomical data such as moon phase and meteor showers. Easy-to-read backlit LCD display with a glow-in-the-dark keypad. The console's built in sensors provide indoor temperature and humidity as well as barometric pressure measurements. The outdoor Integrated Sensor Suite is powered by a solar panel during the day and stored energy at night.....**$369.99**

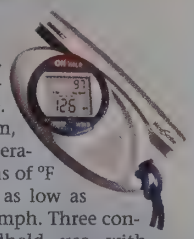
7425 Weather Wizard III®
The Weather Wizard III displays indoor and outdoor weather conditions at the touch of a button. Large display includes compass rose which shows continuously updated wind direction and wind speed information. With the Complete Weather Wizard III station, you'll also get daily and accumulated rainfall. This basic station includes: Anemometer with 40' (12 m) cable; Outside temperature sensor with 25' (7.5 m) cable; Inside temperature sensor; Console with AC-power adapter and battery backup (battery not included); Cables are connected to the console through a junction box with 8' (2.4 m) of cable. Dim: 5.25" x 5.875" x 3"..... **$199.99**



7852 Rain Collector II – For the 7425. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable. **$69.99**

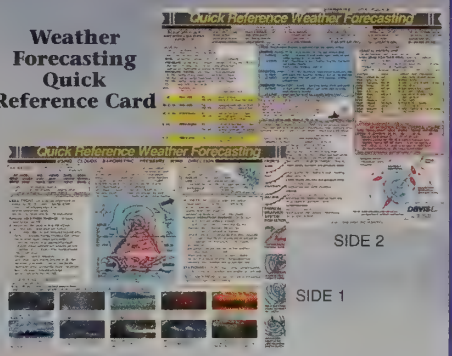
WIND GAUGES

0276 Windscribe Ultrasonic Wind Meter
Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" x 3" x 0.75"; 3.5 oz **$99.99**



0281 Wind Wizard™ Wind Speed Indicator
Accurately measures speed from 0-60 mph in miles per hour, meters per second and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. Self-powered - no batteries needed.
Dim: 3.625" x 2.875" x 1" folded; 2.5 oz. .. **$49.99**

Weather Forecasting Quick Reference Card



0131 Weather Forecasting Quick Reference Card – Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog, other hazardous conditions & more. Waterproof, strong plastic, full color. Punched for binder or bulkhead mounting. Dim: 8.5 x 11 in. **$9.99**

MIDLAND WEATHER RADIOS

74-250C All Hazard Alert Handheld Weather Radio with S.A.M.E. Technology – Get up-to-the-minute NOAA weather and hazardous-conditions information. Alarm with snooze and thermometer. Dim: 4"h x 2.75"w x 1"d. **$49.99**

WR-300 AM/FM Alarm Clock Radio with NOAA Weather/All Hazards – For security, be alert to conditions that affect you. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Operates from included AC power adapter or (4) AA Batteries (not included). **$59.99**

TV ANTENNAS

WINEGARD® Clearly the World's Best®

Platinum Series VHF/UHF/FM Antennas
The 75 ohm downlead coupler simply snaps into place for fast, easy assembly; eliminates the need for matching transformers when using coax cable. Steel hardware is zinc plated for maximum corrosion resistance.

HD-7010 Range: ~45 miles VHF & ~30 miles UHF; 22 elements (9 VHF, 13 UHF); 66.5" boom. **$89.99**

HD-7084P Range: ~80 miles VHF & 45 miles UHF; 68 elements (28 VHF, 40 UHF); 131.75" boom length **$199.99**

Platinum Series UHF Only Antennas

HD-9075P Range: 30-50 Miles – 26 elements; 60" boom length. **$99.99**

HD-9095P Range: 40-60 Miles – 39 elements; 95" boom length. **$129.99**

To see what antenna works best for you go to www.dtv.gov and click on the Reception Maps

TV COAXIAL CABLE

RG-6 75 ohm TV Coaxial Cable – Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weatherproof F-connectors are installed on each end.

CX-0625 – 25 ft. length. **$16.99**
CX-0650 – 50 ft. length. **24.99**
CX-0675 – 75 ft. length..... CLOSEOUT **29.99**
CX-6100 – 100 ft. length. **34.99**

TV-2900 Matching Transformer – Adapts 75 ohm coaxial cable with F-type connectors to a 300Ω TV antenna or TV set. Includes F connector and weatherproof boot..... **$6.99**

AUDIO/VIDEO CABLES

VANCO.

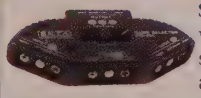
AC-3F Audio "Y" Adapter (A) – (1) RCA Plug to (2) RCA Jacks, Shielded, Red/White, 6 in..... **$1.99**

FF-3 Video Cable (B) – 3 ft. high quality TV/VCR cable made of low loss 75 ohm RG-59 cable with molded "F" connectors. ..... CLOSEOUT **99¢**

SPW-52 Speaker Wire (C) – 25 ft. 18 gauge, clear flexible jacket with polarity stripe..... **$8.99**

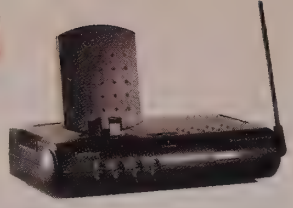
velleman inc.

AUDIO/VIDEO SWITCHER



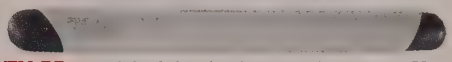
AVW-089 Audio/Video Switcher – Input audio and video from 3 different sources and switch them to a single output. **$8.99**

TERK LEAPFROGS



LF-30S Leapfrog WaveMaster 30 Transmitter/Receiver System – An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits on 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 1.5"h x 7"w x 4.8"d..... **$99.99**

COMPACT TV ANTENNAS



TV-55 Amplified Out/Indoor TV Antenna – Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier (switch in or out for best reception). Mounts in or outdoors. Includes a AC adapter and mounting hardware. Dim: 46"w x 3.5"h x 2.25"d..... **$99.99**

HDTV-I Indoor UHF/VHF/HDTV Antenna Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception – high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5"w x 9.1"h x 16.5"d; 42" high with dipoles extended..... **$49.99**

AM/FM ANTENNAS

ADVANTAGE External AM Antenna (left) Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Used unattached, next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input..... **$49.99**

PI-B Powered Indoor AM/FM Antenna (right) Improves FM reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable AM loop enhances broadcast band reception. AC adapter included. Dim: 6"h x 6"w x 1.5"d. **$49.99**

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twitter.com/K9AES

GROTHE ELECTRONICS

SIRENS & HORNS

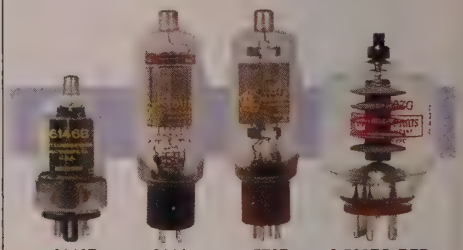
VS-2 Emergency Vehicle Siren – For the volunteer fireman. A quality-built wail-yelp alarm that delivers a 120dBa sound level at 4 ft. with a frequency range of 600 to 1200Hz. Pre-wired with a 3-position switch (Yelp-Off-Wail). Includes a waterproof horn speaker, 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A; 2.7 lbs. **$89.99**

VS-3 Vehicle P/A and Airhorn with Rebroadcast Powerful airhorn sound with 4 different sounds (no siren) Delivers 120dBa level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A..... **$129.99**

VS-4 P/A Emergency Vehicle Siren – Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A over-ride features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A..... **$139.99**

VS-2LS Siren–Light Combo A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light. Special Order... each **$299.99**

TRANSMITTING TUBES



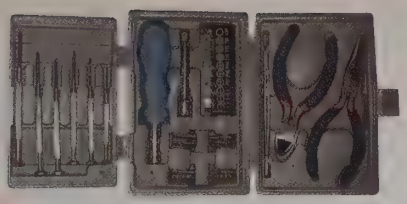
6146B Beam-power Pentode – Replacement final for older ham gear: B&W, Collins, Globe, Hallicrafters, Heathkit, Johnson, etc. Rig may require minor alignment..... **$29.99**

811A Power Triode – For Ameritron, Collins, Heath and other power amplifiers..... **$24.99**

572B High-mu Power Triode – A direct drop-in replacement in equipment using the 811-A or T-160. Uses a graphite anode with a 160W average plate dissipation, that provides enhanced overload capability and enhanced reliability. **$59.99**

3-500ZG-RFP Power Triode – Mechanically and electrically an exact copy of the Eimac 3-500ZG. Has high-dissipation graphite anode..... **$199.99**

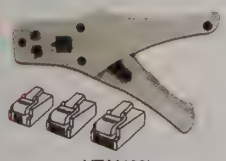
12BY7A Sharp-Cutoff Pentode – Used as the driver in older Kenwood and Yaesu transceivers. **$34.99**



VTTS 25 Piece Multi-Purpose Toolset – A quality toolset for the electronic engineer and hobbyist. **Includes:** 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6 x 4 x 2 in. **$9.99**
Bits: (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. **Sockets:** 4, 5, 6 and 8mm 1/4" drive. **Precision screwdrivers:** 4 slotted, 2 Phillips. **Pliers:** 4.5" mini diagonal, 5" mini long nose

VT-SET3N 6-Piece Electronics Screwdriver Set Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each 4.2 in. screwdriver has its own handle. **$9.99**

VT-SET Stainless-steel precision Pliers Set
5 Pieces: Diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers. **$9.99**



VT-BT6 33 piece Screwdriver Bit Set – Includes **Hex:** #2, 2.5, 3, 4, 5, 6; **Star:** #T10, T15, T20, T25, T30, T40; **Flat:** 3, 4, 5, 6, 7; **Phillips:** 1 PH0, 2 PH1, 2 PH2, 2 PH3; **Pozzi:** 2 PZ1, 3 PZ2, 2 PZ3; **Magnetic bit holder:** 14" hex. **$6.99**
VT-M468L Crimp Tool – For RJ10, RJ11, RJ45 (4P, 6P, 8P) modular connectors. **$9.99**

VT-HD03U 62 piece Rechargeable Precision Drill Contents: 10,000 rpm rechargeable electric drill; 120VAC power supply; (10) grinder stones; (20) diamond bits; (2) connective posts; nylon brush; brass brush; steel brush; (5) cutting discs;(4) polishing wheels; (6) sanding bands; (4) drill bits; (4) collets; engraving bit; wet stone: 1 pc **$24.99**

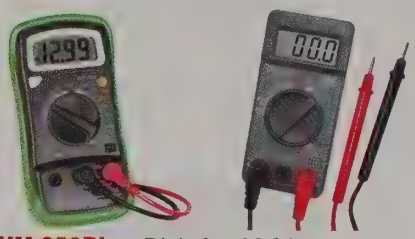
AVM-2050 ANALOG SOUND LEVEL METER

- Omni-directional electret mic.
- Ranges: 60, 70, 80, 90, 100, 110, 120dB (up to 126dB)
- A and C weighting
- 9V Battery included
- RCA output jack
- Dim: 6.3"h x 2.4"w x 1.7"d; 0.4 lbs

$29.99

Velleman Inc. TOOLS & METERS

TLM-2 Test Leads – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A. **$2.99**
TLM-10 Test Probe set – (4) crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks. **$6.99**
K/TF 75-piece cable-tie pack – Contains 25 each of 3.9 in, 4.7 in. and 7.9 in. long ties. **$2.99**
VT-LAMP2BNU Magnifier Lamp – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount. . **$49.99**



DVM-850BL Digital Multimeter with Automatic Polarity Function and 3-1/2 Digit LCD Display (left) – Manual range selection, Data-hold function and back light. Measures AC and DC voltage up to 600V. Current up to 10A with overload protection, and Resistance up to 2MΩ. Diode, transistor (hFE) and continuity test with buzzer. Test leads, 6LR61 9V battery and protection holster included. Dim: 2.7"w x 5.4"h x 1.2"d. **$19.99**
DVM-810 Mini 3-1/2 Digit Digital Multimeter (right) – Compact, a perfect fit for any toolbox or even shirt pocket. Measure AC and DC voltages up 500V and DC current up to 10A maximum. Measure resistance up to 2MΩ. Diode and transistor (hFE) test. Test leads and GP23GA 12V battery included. Dim: 3.75"h x 1.8"w x 1"d. **$9.99**

COAX STRIPPER

VT-COAX Rotary Coax Cable Stripper – For RG-6, RG-58, RG-59 & RG-62 Cable. **$14.99**

DESOLDERING TOOL

VT-D2 Extra Powerful Desoldering Tool – The easy way to remove solder from printed circuit boards, terminals and wires. Simply depress and lock down the spring loaded plunger. Place the tool tip over the heated molten solder and release the plunger. A strong vacuum at the tip removes the solder and captures it inside the cylinder. Teflon® nozzle. Dim: 13.2 in. long. **$4.99**

NO LEAD SOLDER

SOLD-250GLF
No Lead Rosin Core Solder
99.3% tin, 0.7% Cu, 482°F melting point, 0.55 lb. roll **$19.99**

Weller® SOLDERING TOOLS

SP-23LK 25W Soldering Iron Kit – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V. . **$17.99**
W-60P 60W Pencil-Type Soldering Iron – For most circuit work. 0.0625 in., 700°F screwdriver tip. Temperature controlled by the tip you use.
Dim: 71/2 in. long, 2.5 oz., 6 ft. cord, 120V. **$73.99**
WP-25 25W Pencil-Type Soldering Iron – For work on delicate electronics. 750°F tip temperature. Dim: 7.9 in. long, 1.75 oz., 4 ft. cord, 120V. **$38.99**
ST-4 3/16 in. Screwdriver Tip. **$3.99**
ST-5 1/32 in. Screwdriver Tip. **$3.99**
WSTA3 Pyropen® Butane Soldering Iron with Case – Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing. **$124.99**

7200PK Multi-purpose Soldering Gun – Compact and lightweight, but 75W for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120VAC. **$29.99**
7235 (2) Extra standard tips. **$3.99**

SOLDERING STATIONS

WESD51 50W Adjustable Soldering Station (left) For continuous production soldering as well as occasional use. Quick heat-up, and tip temperature recovery. Microprocessor temperature control and LED display that shows the adjustable heat setting and tip temperature from 350 to 850°F. Automatic shut down after 90 minutes. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and tip cleaning sponge. Dim: 5.9"w x 4.5"h x 3.6"d; 4 lbs. **$169.99**
WTCPT 60W Temperature Controlled Soldering Station (right) – For production, rework, and repair of through-hole and SMT boards. ESD safe, tip maintains a constant 700°F without any adjustments. Includes: Control unit, pencil-type soldering iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5"w x 5.9"h x 3.6"d; 4 lbs. **$149.99**

WAHL® ELECTRONICS ISOTIP

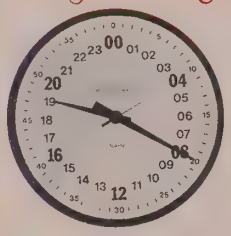
7740 Cordless Soldering Iron Kit – Provides tip performance up to 50W and over 700°F. Contains premium NiCad rechargeable battery with high-rate charging capability. Partially discharged, it will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy soldering tips..... **$49.99**

7971 SolderPro 50 BUTANE Soldering Iron – Ready to use within 10 seconds. Adjustable, 410°F to 750°F and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0mm conical tip. Dim: 4-3/4 in. long.. **$25.99**

7974 SolderPro 70 BUTANE Soldering Iron – Adjustable, 410°F to 850°F and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip and a torch tip. Dim: 7-1/2 in. long. **$39.99**

POPULAR CLOCKS

Benjamin Michael Industries INC.



973A – Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. diameter dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery Dim: 14" diameter x 1.75"d..... **$49.99**

972AD – Same but 12/24 hour dial. **$27.99**

MFJ

105C 24 Hour Quartz Wall Clock – Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery..... **$24.99**

125 DXer's Dream Quartz Wall Clock
The 12 in. diameter face shows 24-hour time. Three independently settable table dials show 12 hour time, day and date. Uses a single "AA" battery..... **$34.99**

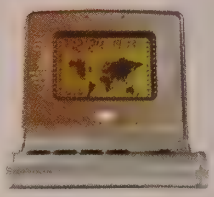
107B

108B

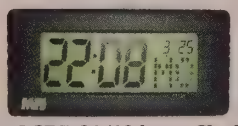
Small 24-Hour Clocks – A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

107B Single Clock – 2.25"w x 1"h x 2"d. **$12.99**

108B Dual Clock – 4.25"w x 1"h x 2"d.... **$21.99**



112B DXer's World Map Clock – Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month, date and year. Select 12 or 24 hour time, daylight saving time. Dim: 4.25"w x 3.3"h x 2.25"d..... **$29.99**



118 Jumbo LCD™ 24/12-hour Clock – 1.25 in. high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calender and flip stand. Uses one "AAA" battery. Dim: 5.75"h x 3.375"w x 0.5"d. **$29.99**

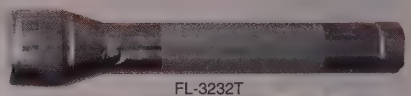
123B Solar Powered Atomic LCD Clock
No need for batteries or to set time! Receives WWVB signal. Display is 3.5"h x 6.25"w with huge 2" time digits. Choose 24 or 12 hour time. Has indoor temperature, running seconds, month/date and day-of-week displays. Attractive silver metallic looks fantastic on the wall or desk mounted in the shack or office! Dim: 9.5"w x 6.25"h x 1"d. **$79.99**

113 12/24 Hour Desk Clock – Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9"w x 4"h x 2.5"d..... **$19.99**

MFJ

201 Dip Meter
Find a coil's resonant frequency. Couple it to an antenna or coax line to find their electrical length. Use it as an absorption wavemeter for measuring transmitter output, neutralizing tank circuits, or even a field strength meter. Other uses include: crystal oscillator, monitoring audio signal outputs and measuring inductance and capacitance. Solid-state design, covers 1.5 to 250 MHz in six bands. It has thumb wheel tuning, color coded readout, six coils, earphone jack and battery check. Requires one 9V battery.
Dim: 2.5"w x 2.0"d x 7"h. **$139.99**

HOUSE of DEALS
LED Flashlights



FL-3232T

FL-8211B

FL-8211B with bike mount

FL-3232T 32-LED Flashlight. $24.99
- Sturdy, metal body
- Dim: 12 x 2-1/4 in.
- Powered by (3) "D" batteries (not included)

FL-8211B 11-LED head/bicycle Lamp. .. $9.99
- 11 White & 2 Red blinking LED's
- Wide beam
- Adjustable head strap & bicycle attachment
- Dim: 2-3/4"w x 2"h x 4"d
- Powered by (3) "AAA" batteries (included)

velleman inc. **BICYCLE LIGHT**

ZL-388/7 Powerful Bicycle Dynamo with three LEDs Light with Holder..... **CLOSEOUT $9.99**
- Holder makes mounting on bicycle easy
- Cranking 1 minute gives up to 40 minutes of light
- Weatherproof and soft-touch surface

PDK Technologies

LITE FLARE® Emergency Signaling Device
Eliminates the fire and environmental hazards of using incendiary flares. Approaching drivers can see the flashing super-bright red LED lights from more than a mile away. Operates over 400 hours on just two included AA batteries. The LiteFlare® stands up to repeated drive overs and the molded plastic case resists snow, water, and fuel spills. Comes with three units in a plastic case that fits handily into motorcycle storage compartments, safety boxes, or trunks. Dim: 4.25"l x 3.8"w x 1"d; 6 oz..... **(3 pack) $29.99**

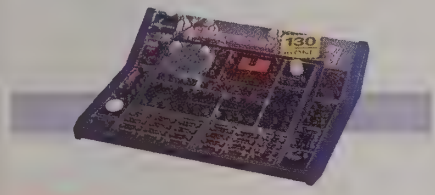
MFJ **STEP ATTENUATOR**

762 – Provides push-button selection of up to 81dB of attenuation in 1dB steps up to 170 MHz (usable to 500 MHz). Shielded stages. Handles 250 mW maximum power. Z: 50Ω in/ out, BNC RF connectors with SO-239 adapters. Metal cabinet.
Dim: 6.5"w x 2.5"h x 1.5"d. **$89.99**

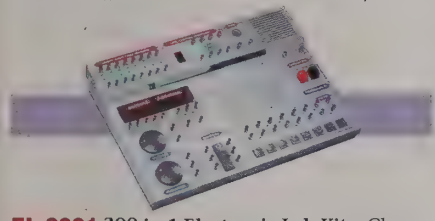
velleman inc. ELECTRONIC LAB KITS

Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated manuals for EZ construction • No experience required!

EL-301 30 in 1 **Electronic Lab Kit** – This great starter kit contains everything you need to build a Radio, a Burglar alarm, Water detector, Morse code practice circuit, Simple computer circuits and much more. **$39.99**



EL-1301 130 in 1 **Electronic Lab Kit** – Build a Radio; AM broadcasting station; Electronic organ; Kitchen timer; Logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls. **$89.99**



EL-3001 300 in 1 **Electronic Lab Kit** – Choose from over 300 exciting electronic projects including: Radio; IC organ; Burglar alarm; Battery checker; Delayed Timer; Electronic Game; Voltage controlled amplifier; Multiplier; Multiple counter; Light dimmer; Tone burst generator; Audio signal trace; Electronic candle; Voice level meter; Metal detector; Rain detector; Voltage drop alarm; Logic checker; Function generator and many more. **$129.99**

VECTRONICS RADIO KITS

Their are three difficulty levels so you can have fun no matter what your skill level is!

Simple (S): Calls for a few basic tools - a soldering iron, cutters, pliers, wire-strippers, and a small screwdriver.

Intermediate (I): Requires more involved construction - you may use some test gear for final adjustment or tuning.

Moderate (M): Requires some test gear - usually a multimeter for some final adjustment or tuning.

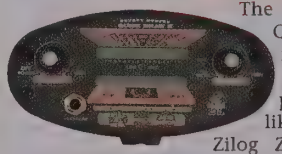
1140K 40M Receiver Kit (M)..... **$29.99**
121K Crystal Radio Kit w/Earphone (S).. **19.99**
1240K 40M QRP CW Transmitter Kit (I). **29.99**
1290K AM Radio Transmitter Kit (S)..... **29.99**
131K Aircraft Receiver Kit (I)..... **29.99**
201K CW Keyer Kit (S)..... **24.99**
830K SSB Audio Filter Kit (S)..... **19.99**
841K Tunable SSB/CW Audio Filter Kit (I). CLOSEOUT **29.99**

BOUNTY HUNTER METAL DETECTORS

TRACKER IV

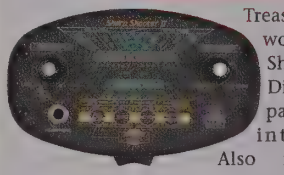
The optimum combination of power, ease-of-use, affordability, and big finds every time. The Tracker IV™ is built with a fully-submersible 8 in. Bounty D-Tech™ search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features three different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination & Tone Discrimination... **$129.99**

QUICK DRAW II



The Bounty Hunter Quick Draw II™ metal detector packs many powerful features, like an advanced Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof Bounty D-Tech™ search coil, three levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10 in. deep and larger objects up to 5 ft. **$229.99**

SHARP SHOOT II



Treasures missed won't escape the Sharp Shooter II™. Digital LCD, touch-pad control, and interchangeable. Also features 3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker. **$269.99**

LAND STAR

The Land Star is a powerful metal detecting system offering tremendous versatility with two distinct systems integrated into one: No-Motion mode and an Auto Notch Discrimination. No-Motion All Metals mode allows manual ground balancing for deep searching, or preset balance for easy pinpointing. Ground Trac™ uses two stages of differentiation between ground and target signals for high performance motion discrimination. Four level iron discrimination maximizes relic hunting. Digital coin depth indicator tells you how deep to dig. Nine segment visual identification and 3 tone audio feedback..... **$299.99**

BOUNTY HUNTER ACCESSORIES

CARRY BAG Padded Carrying Case – Protects metal detectors from the elements, in storage and transit. Rugged, double-stitched, nylon construction. Includes outside zip-pocket. **$29.99**

10" COIL 10-inch Magnum Coil – Adds extra depth for relic and cache hunting. **$49.99**

BUSHNELL SPEED GUN

Bushnell makes it easy to accurately measure speed with the Velocity™ speed gun. Very easy to use with its point-and-shoot operation. The Velocity™ speed gun boasts ±1.0mph accuracy. The Velocity™ can track the speed of a ball from 100 feet. It's the ideal tool for tracking everything from race cars to pitching speeds. Velocity™ gun has a 6–110mph range for baseball, softball and tennis, 6–200mph range for auto racing.

10-1911 Velocity™ Speed Gun – Easy-to-use, point and shoot pistol grip; Large, clear LCD display; Displays fastest speed once trigger is released; ± 1 mph accuracy; Operates on two "C" batteries. Dim: 4.3" x 8.4" x 6"; 13 oz. **$99.99**

Q-VIEW QSL Card Holders

Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily. The pack of three will display 60 cards... **ART QSLCARDHOLDE** (3 pack) **$19.99**

AMATEUR ELECTRONIC SUPPLY® 5710 W. Good Hope Road • Milwaukee, WI 53223
Toll Free: **(800) 558-0411** • *Local:* **(414) 358-0333** • *24-hour FAX:* **(414) 358-3337** • *Online:* www.aesham.com • *E-Mail:* info@aesham.com

Salesperson's Name _____
Account No. _____ Date _____
Name _____ Call _____
Address _____
City/State _____ Zip _____
E-Mail Address: _____ Fax: ( )
Phone No. (Home) ( ) _____ Hours: _____
Phone No. (Work) ( ) _____ Hours: _____

SHIP TO *(If other than at left):*

IF YOU HAVE MOVED since your last order, please show your old address:

QTY	MANUFACTURER	PART OR MODEL # • DESCRIPTION	PRICE EACH	TOTAL

PLEASE CALL ANY LOCATION TO CONFIRM PRICING • DO NOT MAIL CURRENCY — **TOTAL AMOUNT OF ORDER** $

LINE 1 — Shipping Charges We ship via **UPS Ground** at *flat-rate* shown below and on next page, except to APO/FPO made via Priority Mail.

UPS Ground Flat-Rate Shipping (48 States):

Orders up to $99.99 ($4.99); $100.00 to $499.99 ($9.99); $500.00 to $1499.99 ($14.99); $1500.00 & UP (FREE) +

For Faster Service select one of the following: (These methods are not flat-rated so allow for increased shipping charges - no flat-rate credit.)
❒ UPS Next Day Air ❒ UPS 2nd Day Air ❒ UPS 3-Day Select ❒ Fedex Next Day Air ❒ Fedex 2nd Day Air ❒ Express Mail ❒ Priority Mail

Shipping Charges are taxable in WI, FL, NV & OH

LINE 2 — State Sales Tax: ❑ WI- 5.6%, ❑ FL- 6.5%, ❑ NV- 8.1%, ❑ OH- 6.25%

Additional county & local sales tax may apply. +

LINE 3 — Credits: AES Refund Checks, Gift Certificates or Manufacturer's Coupons (if any) DO NOT DEDUCT MAIL-IN REBATES -

CREDIT CARD INFORMATION

We also accept Government Credit Cards

Account Number

Cardholder's Name — CARD EXPIRES

Cardholder's Signature — Date

LINE 4 — Balance $

LINE 5 — Due AES from previous order (if any) +

TOTAL AMOUNT DUE

Choose payment method from below: (Fill in information at right, if applicable) $
❒ Bank transfer ❒ Certified check ❒ Personal check ❒ Money order
❒ Credit card (VISA, MasterCard, Discover, American Express, IMPAC)
❒ COD $9.00 fee per package. *Money Order or Certified Check Only.*
MINIMUM $50.00 COD ORDER – NO AIR OR PARCEL POST COD's

AMOUNT ENCLOSED -

BALANCE DUE (IF ANY) $

NOTES:

Cash Refunds: Amounts under $5.00 will not be refunded unless requested in writing to Milwaukee headquarters.

Call 1-800-558-0411 for Bank Transfer Information

Cut along dotted line or make a photocopy

COD ORDERS

Minimum COD order is $50.00 in merchandise, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a $9.00 COD fee per package applies. Payment by money order or certified check only, not cash.

DAMAGED ITEMS

If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY**. The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

DEFECTIVE ITEMS

Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. It is the customer's responsibility to return the defective merchandise to AES or the factory. The manufacturer's warranty does not include reimbursement for freight charges. Canadians please see *"Canadians Note:"* under TRADE-INS.

INTERNET ORDERS

You can order directly via our website - www.aesham.com. If you have any problems using our website or would like to speak to a salesman; call any of our locations for support.

PAYMENT

Accepted forms of payment are electronic bank transfer (add $30.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

PRICING

We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc. prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. **AES** is not responsible for typographical errors or omissions.

REFUNDS

Amounts under $5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

RETURNS

In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee.** The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. We reserve the right to charge back actual outbound freight on returns from flat-rate or prepaid shipments. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see *"Canadians Note:"* under TRADE-INS.

REFUSED ORDERS

If a package is refused by the customer the actual outbound freight and actual inbound freight charges by the carrier will be deducted from the return. Packages returned by the customer unopened will only be subject to actual outbound freight. AES also reserves the right to charge a minimum 15% restocking fee to the return.

PACKING FOR SERVICE AND/OR RETURN

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. **Send your package insured.**

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

SHIPPING

Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on this page for rates). Cancellations on partially shipped orders will not affect the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES via UPS Ground Service to the contiguous 48 states only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods or USPS.

Shipments to APO/FPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges are taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches due to various reasons. In this case, AES will ship the order from a location that has the needed item.

TRADE-INS - CALL BEFORE SENDING

Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments are not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

Canadians Note: Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

In a small part of our attempts to be more "Green" please excuse the use of boxes which contain logos and products of other companies.

BIDS & PURCHASE ORDERS

AES accepts written and signed Purchase Orders from companies well rated by D&B, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the opportunity to bid on your equipment requests. We are registered with FACNET and accept Government issued credit cards. For more information please contact any AES location.

SPECIAL ORDERS

Occasionally manufacturers offer items that AES doesn't stock. Often we can order these items for you. Please contact sales: info@aesham.com for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

INTERNATIONAL ORDERS

AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via bank wire transfer. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact info@aesham.com for complete details. All international regulations apply.

EU COUNTRIES

Due to current European Union (EU) regulations, AES CANNOT export many products to EU member countries and members of the European Economic Area (EEA).

FLAT RATE SHIPPING via UPS Ground in the contiguous 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to $99.99	$4.99
$100.00 to $499.99	$9.99
$500.00 to $1499.99	$14.99
$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii

Flat Rate Advantage – No Penalty for Number of Cartons or Weight!

UPS cannot deliver to Post Office Boxes

Get Ready For The

ORLANDO HamCation℠

Amateur Radio & Computer Show

2010

February 12, 13, & 14

AT THE CENTRAL FLORIDA FAIRGROUNDS
4603 West Colonial Drive Orlando, Florida 32908
Fri. 12 noon to 6 pm Sat. 9am to 5pm Sun. 9 am to 2pm

Kick off the year 2010 in Orlando, at one of the great hamfests. See the latest equipment. Shop for swap deals. Find bargains at the largest tailgate area in the Southeast.

There are transceivers, mobile rigs, HT s, amps, antennas, call-letter hats, parts, T-shirts, eye-ball QSO s, QSL Cards, forums, food, computers, sun and fun. You ll think it s ham heaven.

Home of some of the best known theme parks on earth, Orlando has all you need to round out your visit. It will be a great vacation for you and the family. Make your plans now for the **2010 Orlando HamCation℠**.

Advanced tickets: **$10.00** (ends Jan 23, 2010)
Tickets at the gate: **$12.00**

For current information please visit our web site at **www.hamcation.com**, call 407-814-0434, email us at **hamcation@oarc.org** or email Mort & Roberta Cohen at **hamcation@aol.com**.

Write us at: **HamCation℠, PO Box 547811, Orlando, FL 32854-7811**

- **Special Guest Speakers**
- **Over 150 Commercial Booths**
- **Over 400 Swap Tables**
- **Largest Tailgate Area in the Southeast**
- **Florida Weak Signal Society Quarterly Meeting**
- **Testing on Saturday**
- **Free Parking**
- **RV Camping on Premises** ($25 per night)
- **Fox Hunt** (4pm Saturday)
- **Guest Friendly Central Florida Atmosphere**
- **Theme Parks Nearby**
- **Courtesy Talk-In On 146.76** (Backup Talk-In On 147.015)

ORLANDO AMATEUR RADIO CLUB

Orlando HamCation is a registered service mark of the Orlando Amateur Radio Club.

CALL 414-358-4087 for SERVICE

Unlike some dealers, when you purchase a new radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.

MILES, K9HMQ SERVICE MANAGER
(Milwaukee Store)

RICK, WB9HKE
(Milwaukee Store)

Warranty Service

Please refer to manufacturers' warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

Out-Of-Warranty, Late Model Equipment

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087.

Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service" and always adequately insure your items.

Labor Rates

- $60 per hour for Out-Of-Warranty Service
- $80 minimum on HF/VHF Base Stations
- $60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

SHIPPING INFORMATION

FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to $99.99	**$4.99**
$100.00 to $499.99	**$9.99**
$500.00 to $1499.99	**$14.99**
$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii

(Flat Rate Advantage – No Penalty for Number of Cartons or Weight!)

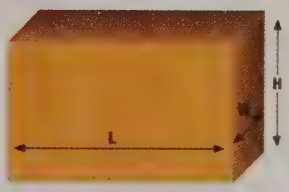
EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

Please see Policies Page for complete information.

TRACKING NUMBERS for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service. Or send us an email to info@aesham.com.



Domestic Air

$$\frac{L \times W \times H}{194} = \text{Dimensional Weight}$$

International Air

$$\frac{L \times W \times H}{166} = \text{Dimensional Weight}$$

Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

Dim Weight

When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 12 pound rate via Domestic Air.

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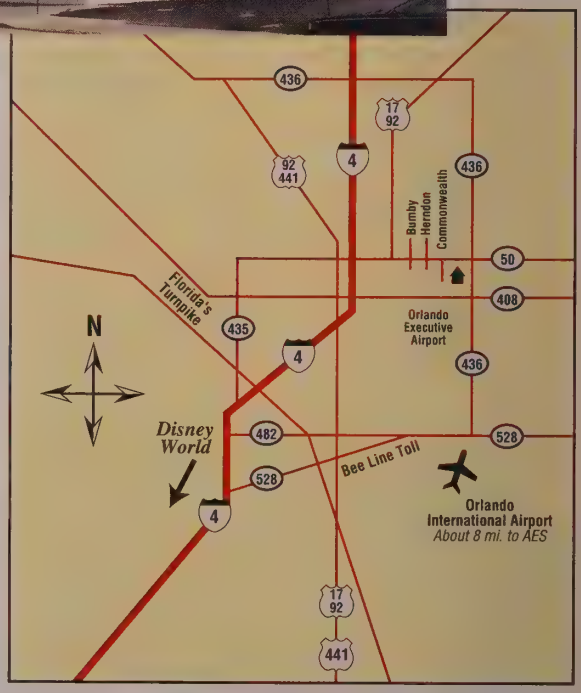

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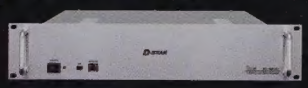

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